

# भारत का राजपत्र

## The Gazette of India

प्राधिकार से प्रकाशित  
PUBLISHED BY AUTHORITY

सं० 7]

नई विल्सो, शनिवार, फरवरी 14, 1981 (माघ 25, 1902)

No. 7]

NEW DELHI, SATURDAY, FEBRUARY 14, 1981 (MAGHA 25, 1902)

इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके  
(Separate paging is given to this Part in order that it may be filed as a separate compilation)

## भाग III—खण्ड 2

## [PART III—SECTION 2]

पेटेन्ट कार्यालय द्वारा जारी की गई पेटेन्टों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस  
[Notifications and Notices issued by the Patent Office relating to Patents and Designs]

## THE PATENT OFFICE

## PATENTS AND DESIGNS

Calcutta, the 14th February, 1981

## SPECIAL NOTICE

(I)

The following holidays will be observed by the Patent Office Branch, New Delhi during the year 1981.

Name of Festival	Day of the week	Date
Republic Day	Monday	26th January.
Holi	Saturday	21st March.
Good Friday	Friday	17th April
Mahavira Jayanti	Friday	17th April.
Budha Purnima	Monday	18th May.
Id-ul-Fitr*	Sunday	2nd August.
Independence Day	Saturday	15th August.
Janamashtami	Sunday	23rd August.
Mahatma Gandhi's Birthday	Friday	2nd October.
Dussehra	Wednesday	7th October.
Dusschra	Thursday	8th October.
Id-U-Zuhar (Bakrid)*	Friday	9th October.
Diwali (Dipawali)	Tuesday	27th October.
Muharram*	Sunday	8th November.
Guru Nanak's Birthday	Wednesday	11th November.
Christmas Day	Friday	25th December.

\*Subject to change depending on appearance of the Moon.

## SPECIAL NOTICE

(2)

The following holidays will be observed by the Patent Office Branch, Bombay during the year 1981.

Name of Festival	Day of the week	Date
Id-e-Milad*	Monday	19th January.
Republic Day	Monday	26th January.
Guru Rave Das's Birthday	Wednesday	18th February.
Holi	Saturday	21st March.
Mahavir Jayanti/Good Friday	Friday	17th April.
Buddha Purnima	Monday	18th May.
Independence Day	Saturday	15th August.
Parsi New Year Day	Wednesday	26th August.
Ganesh Chaturthi	Wednesday	2nd September.
Mahatma Gandhi's Birthday	Friday	2nd October.
Dassera	Thursday	8th October.
Id-Ul-Zuha (Bakrid)*	Friday	9th October.
Diwali	Tuesday	27th October.
Diwali-New Year/Govardhan Pooja	Wednesday	28th October.
Guru Nanak's Birthday	Wednesday	11th November.
Christmas	Friday	25th December.

\*Holidays for Id-e-Milad and Id-Ul-Zuha (Bakrid) are subject to the sighting of the moon.

APPLICATION FOR PATENTS FILED AT THE HEAD  
OFFICE, 214 ACHARYA JAGDISH BOSE ROAD,  
CALCUTTA-700 017

The dates shown in crescent brackets are the dates claimed under Section of the Act.

8th January, 1981.

19/Cal/81. Prof. Dr.-Ing. K. Bammert. Rotary compressors, in particular screw rotary compressors. (November 25, 1980).

20/Cal/81. Prof. Dr.-Ing. K. Bammert. Compressors, in particular screw compressors. (November 25, 1980).

21/Cal/81. VDO Adolf Schindling AG. Improvements in moving coil meters.

9th January 1981

22/Cal/81. Institut DE Recherches DE LA Siderurgie Francaise Irskd and Arbed S. A. A process of refining a bath of metal in a converter arranged for oxygen blowing from the top and a converter for performing the process.

23/Cal/81. J. Welsh. Device for the induction of specific brain wave patterns.

24/Cal/81. J. Welsh. An alarm system for vehicles.

25/Cal/81. Tsentralnoe Konstruktorskoe Biuro PO Modernizatsii Deistvu-Juscheho Oborudovaniya Elektrotantsev Glavenergoremonta. Gas cooled electric machines.

26/Cal/81. G. Kakar. Improvements in or relating to laminates.

27/Cal/81. Kubota Ltd. Iron-based heat-resistant cast alloy.

12th January 1981

28/Cal/81. Kievskoe Nauchno Proizvodstvennoe Obiedinenie "Analitribor". Capacitor transducer for aerosol parameters in flows and device for remote measuring same.

29/Cal/81. Cambridge Consultants Limited. Torque wrench. (January 11, 1980).

30/Cal/80. N. Greening Limited. Screening apparatus. (January 12, 1980) (June 21, 1980)

31/Cal/81. Indian Explosives Limited. Improved water-in-oil emulsion explosives.

13th January 1981

32/Cal/81. Anic S. P. A. and Snambrogetti S. p. A. Chemical composition based on titanium trihalide, a method for its preparation and a process for the polymerisation or copolymerisation of unsaturated compounds which uses this composition.

33/Cal/81. Battelle Development Corporation. No reduction in multisolid fluidized bed combustors.

34/Cal/81. VDO Adolf Schindling AG. Bimetallic indicating instrument.

35/Cal/81. VDO Adolf Schindling AG. Temperature sensor.

36/Cal/81. Centre Stephanois DF Recherches Mecaniques Hydromecanique ET Frottement. Double cable funicular transport device, looped on itself and with speed variation.

37/Cal/81. Kamal Kumar Paul. An improved scooter or the like vehicle.

14th January 1981

38/Cal/81. Gas Sweetener, Inc. scavenging hydrogen sulfide from hydrocarbon gases.

39/Cal/81. Rotork Controls Limited. Fluid control system. (January 14, 1980).

40/Cal/81. Trest Leningradorgstroj Glavleningradstroya. Method of erecting a vaulted structure on a pneumatic centering.

APPLICATION FOR PATENTS FILED AT THE PATENT  
OFFICE, BRANCH MUNICIPAL MARKET BUILDING,  
III RD FLOOR, KAROL BAGH, NEW DELHI-3.

12th December 1981

888/Del/1980. Singh & Associates. "Hydraulic shears for use on continuous casting machines".

889/Del/80. Mr. M. J. Pook. "Pipe couplings".

890/Del/80. Mr. M. J. Pook. "Pipe Couplings".

891/Del/80. Mr. M. J. Pook. "Pipe Couplings".

892/Del/80. The Director All India Institute of Medical Science. "A prosthesis for use by a above knee amputee".

893/Del/80. The Director, All India Institute of Medical Science, "A connector member for use in a prosthesis".

894/Del/81. The Director, All India Institute of Medical Science. "An ankle joint member for use in a prosthesis".

895/Del/80. The Director, All India Institute of Medical Science, "A prosthesis for use by a below knee amputee".

896/Del/80. Dr. Karl Thomas Gesellschaft Mit Beschränkter Haftung. Novey dipyridamol sustained release forms and processes for the preparation thereof."

15th December 1980

897/Del/80. Vishy Sachdeva & Devi Singh. "Improvement in or relating to a bicycle".

898/Del/80. Premafin Establishment. "A container provided with antiflame outer lining for contents heating".

899/Del/80. MCR Oil Recovery International Ltd., "Down-hole Steam Apparatus".

16th December 1980

900/Del/80. Council of Scientific & Industrial Research. "Improved process for the conversion of toluene to xylenes".

901/Del/80. XOMOX CORPORATION. "Improved Rotary Plug Valve". (January 8, 1980 & Sep. 25, 1980)

902/Del/80. Chloride Silent Power Limited. "Sodium sulphur cells and cathode current collectors for such cells" (December 24, 1979).

17th December 1980

903/Del/80. Bharat Heavy Electricals Limited. "A Solar water heater having a storage tank." (Divisional date Oct. 27, 1979).

904/Del/80. Bharat Heavy Electricals Limited. "A Solar water heater having a storage tank", (Divisional date Oct. 27, 1979).

905/Del/80. T. T. Haaksbergen B. V. "Method for the production of a link-belt and a link-belt produced thereby".

18th December 1980

906/Del/80. Dr. Beck. & Co. A. G. "Winding wires with two insulating layers of different materials by extrusion of thermoplastic materials".

22nd December 1980

907/Del/80. Carrier Corporation. "Multi-Stage Rotary Machine".

908/Del/80. Union Carbide Corporation, "Catalytic Steam Reforming of Hydrocarbons".

909/Del/80. Dr. Gurdeep Singh Johar, "Fluorescent Skin-Cleansing Camphor Lotion".

23rd December 1980

910/Del/80. Ali Ahmed Ansari, "Engineering design of lime kilns of the Vertical Masonry shaft types."

911/Del/80. Synthetab, "Control Device for an artificial respirator".

912/Del/80. Sodastream Limited, "Improvements in or relating to apparatus for aerating liquids". (Jan. 15, 1980).

913/Del/80. Arbed S. A. "Process for metal bath refining".

24th December 1980

914/Del/80. Carrier Corporation, "A method of heating and cooling an enclosure". [Divl. date June 30, 1978].

915/Del/80. Etienne Legast, "Process and apparatus for the steam extraction of essential oils from vegetable material".

916/Del/80. Pfizer Inc., "A process for the preparation of 3-(2-Hydroxy-4-(Substituted) Phenyl)-Cycloalkanone Analgesic agents".

26th December 1980

917/Del/80. Nippon Steel Corporation, "Electroslag surfacing method of components having a cylindrical surface and apparatus for carrying out the method".

918/Del/80. Union Carbide Corporation, "Separation of aromatic hydrocarbons from petroleum fractions".

29th December 1980

919/Del/80. Colgate-Palmolive Company, "Dental cream compositions".

920/Del/80. Dresser Industries Inc., "Improved tubing expander for boiler tubes or the like".

921/Del/80. Council of Scientific & Industrial Research, "Improvements in or relating to the design of cell in the cathodic reduction of nitro compounds to amino compounds".

922/Del/80. Council of Scientific & Industrial Research, "A device for the measurement of AC resistivity of liquids".

923/Del/80. Council of Scientific & Industrial Research, "A logic control system for PWM inverter with Smooth take over of three phase inverter operation from PWM mode to six step mode".

924/Del/80. Council of Scientific & Industrial Research, "A improvements in or relating to blackening of electroless nickel deposits".

925/Del/80. Council of Scientific & Industrial Research, "A device for the measurement of Ac resistivity of liquide".

30th December 1980

926/Del/80. Krishan Kumar Parashar, "A wind-mill which could produce mechanical and electrical energy from wind like other power plants in India now working on coal or water power".

927/Del/80. Krishna Kumar Parashar, "A bicycle in which (a) The weight of the cycle rider partly helps in the propulsion of the cycle". (b) uncomfortable jerks have been completely eliminated."

928/Del/80. Krishna Kumar Parashar, "A waterlift which could irrigate about one acre of land per day by hand from 25 to 30 ft. depth".

929/Del/80. Smithkline Corporation, "Process for preparing 7, 8-Dihydroxy-1-(sulfamylphenyl)-2, 3, 4, 5-Tetrahydro-1H-3-benzazepine derivatives".

930/Del/80. Nitrokemia Ipartelepex, "Herbicidal compositions containing N-(Phosphonomethyl)-glycine".

931/Del/80. Dr. Beck & Co. AG., "Insulated directly solderable magnet wires".

31st December 1980

932/Del/80. Boni Gamat, "An improved process for treating and conditioning fabrics".

933/Del/80. Council of Scientific and Industrial Research, "A process for the synthesis of 1-(P-(B-pyrrolidinethoxy phenyl)-2-benzyl-7-methoxybenzoxazepan as an antifertility agent".

934/Del/80. Council of Scientific & Industrial Research, "A device for continuous separation of lighter fraction from heavier fractions of decorticated grains using a liquid system".

935/Del/80. Council of Scientific & Industrial Research, "A process for the synthesis of substituted 3, 5-dihalo 4'-amino salicylanilides". [Divl. date Sep. 6, 1978]

936/Del/80. Council of Scientific & Industrial Research, "A process for the synthesis of substituted-3, 5-dihalo-isothiecy-anatesalicylanilides". [Divl. date Sep. 6, 1978].

APPLICATIONS FOR PATENTS FILED AT THE PATENT OFFICE, BRANCH, 61, WALLAJAH ROAD, MADRAS-600002.

5th January 1981

1/MAS/81. Best & Crompton Engineering Limited. A brushless Alternator.

6th January 1981

2/MAS/81. N. S. Ambedkar. Tailars Ham.

9th January 1981

3/MAS/81. Malle Devasundaram. Automobile valve lapping Machine.

#### COMPLETE SPECIFICATION ACCEPTED

Notice is hereby given that any person interested in opposing the grant of patents on any of the applications concerned, may, at any time within four months of the date of this issue or within such further period not exceeding one month applied for on Form 14 prescribed under the Patents Rules, 1972 before the expiry of the said period of four months, give notice to the Controller of Patents on the prescribed Form 15, of such opposition. The written statement of opposition should be filed along with the said notice or within one month of its date as prescribed in Rule 36 of the Patents Rules, 1972.

"The classifications given below in respect of each specification are according to Indian Classification and International Classification."

A limited number of printed copies of the specifications listed below will be available for sale from the Government of India Book Depot, 8, Kiran Sankar Roy Road, Calcutta, in due course. The price of each specification is Rs. 2/- (postage extra if sent out of India). Requisition for the supply of the printed specifications should be accompanied by the number of the specifications as shown in the following list.

Typed or photo copies of the specifications together with photo copies of the drawings, if any, can be supplied by the Patent Office, Calcutta on payment of the prescribed copying charges which may be ascertained on application to that office.

CLASS 127A.

148398.

Int. Cl.-F16d 25/00.

#### CENTRIFUGAL FLUID POWDER CLUTCH.

*Applicant & Inventor:* PETER BEARDSLEY HIGGINS, OF 'LA COLLINE', MONT GRAS D'EAU, ST. BRELADE, JERSEY, CHANNEL ISLANDS.

Application No. 144/Cal/78 filed February 7, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

11 Claims.

A centrifugal clutch for mechanical transmission by means of powdered shot, or pseudo-fluid material, which is contained between opposing pockets in an enclosing casing and grooves in a rotor which is mounted for rotation within the casing, wherein the improvement comprises, the pockets have their peripheral portions substantially egg-shaped, and have their greatest width disposed at the outer ends of the pockets, and the material is flowable between the pockets during rotation so as to transfer heat from the rotor through the casing.

Comp. Specn. 13 pages.

Drg. 3 Sheets.

CLASS 76E.

148399.

Int. Cl.-F16b 2/20, 3/04.

**EXPANDABLE FASTENER.**

*Applicant & Inventor :* LEIF ANDERSON, OF BOGATAN 39A, S-412 72 GOTEBORG, SWEDEN.

Application No. 292/Cal/78 filed March 18, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

11 Claims.

Expandable fastener intended to be attached in a hole (29) stretching through a wall (30) or similar structures and comprising a holding portion (1, 2) provided to make attachment of objects to the wall (30) possible and an expandable portion (4-9) provided to be inserted through said hole (29) and to be expanded on the opposite side of the wall or similar structures, to a dimension which is considerably larger than the same of the hole (29) with the holding portion (1), (2) and the expandable portion (4-9) situated at opposite sides of the wall (30) or similar structures characterized in that the fastener comprises a pin (10) which is provided to stretch through a hole (3) into the expandable portion (4-9) and to be driven in into the same thereby expanding parts in which the expandable portion (4-9) is divided by means of slots (8) and in that the pin (10) is provided to remain in the last said inserted position so that the pin (10) will prevent said sections to be brought together after the expanding.

Comp. Specn. 10 Pages.

Drg. 2 Sheets.

CLASS 72B.

148400.

Int. Cl.-C06b 1/04, C06d 5/06.

**A PROCESS FOR PREPARATION OF A BLASTING AGENT COMPOSITION FOR MINING TUNNELLING AND OTHER EXCAVATION WORK.**

*Applicant :* COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-110001, INDIA.

*Inventors :* DR. PIYUSH KANTI DUTTA, SHRI AMALENDU BAGCHI, SHRI BIRAJ KUMAR BURMAN AND SHRI SUBHRENDU BAGCHI.

Application No. 150/Del/78 filed February 24, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

3 Claims.

Process for the preparation of blasting agent/composition for mining, tunnelling and other excavation work for construction of dams and like purpose comprising admixing ammonium nitrate and cellulose in a stoichiometric proportion so that when the said admixture is detonated by a primer charge in a blast hole it acts as an explosive and the free oxygen then liberated from the ammonium nitrate is balanced by the amount of the cellulose present in the admixture to achieve complete decomposition to liberate optimum explosive energy, characterised in that the ammonium nitrate used is crushed ammonium nitrate of 99% purity and particle size finer than 40 mesh B. S. Sieve and the cellulose used is pulverised commercial cellulose in content of about 17% by weight of the ammonium nitrate, the cellulose used contains 68% cellulose, 32% cellulose and less than 3% of ash.

Comp. Specn. 8 Pages.

Drg. 2 Sheets.

CLASS 116B & C.

148401.

Int. Cl.-E21c 47/00.

**JOINT FOR ARMOURED SCRAPER CHAIN CONVEYOR.**

*Applicant :* MINING SUPPLIES LIMITED, OF HILL-CREST WORKS, CARR HILL, BALBY, DONCASTER EGNLAND.

*Inventors :* BRIAN RAYMOND STOPPANI AND NIGEL JOHN BOX.

Application No. 223/Del/78 filed March 28, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

13 Claims.

A joint for connecting together adjacent ends of individual elongate pans of an armoured scraper chain conveyor comprising interengaging male and female formations provided on the outsides of their sidewalls of adjacent conveyor pan ends, each formation being provided with one or more abutment surfaces forming part of a laterally open pocket connected to a laterally open channel, the pocket and channel of adjacent pan ends receiving a common laterally inserted connector having a shank portion located within respective channels and at each end of the shank portion an enlarged head located within respective pockets so as to be engageable with an abutment surface of a respective pocket to limit longitudinal separation of the pans while providing for articulated movement therebetween, and an aperture provided in the shank portion to receive a locating pin which is restrained from lateral displacement with respect to the pockets, the connector being thereby maintained within the pockets and channels by engagement with a projection of one or other of the formations.

Comp. Specn. 14 Pages.

Drg. 3 Sheets.

CLASS 146B.

148402.

Int. Cl. B431 13/04

**IMPROVEMENTS RELATING TO A DRAWING INSTRUMENT**

*Applicant & Inventor :* PASUPULETI SAMBASIVA RAO, PHYSICS DEPARTMENT, COLLEGE OF ENGINEERING, ANANTAPUR-515002, ANDHRA PRADESH, INDIA.

Application No. 172/Mas/78 filed September 20, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

5 Claims

A drawing instrument made of a transparent body, one edge of which is graduated to measure lengths, characterised in that the said drawing instrument has parallel, equidistant and broken lines etched on its body at predetermined intervals.

(Comp. Specn.-3 pages; Drawings. -1 sheet)

CLASS 192.

148403.

Int. Cl.-A45b 19/02, 19/08, 19/06, 19/10.

**INFLATABLE UMBRELLA.**

*Applicant & Inventor :* GEORGE PAPPANIKOLAOU, OF 621 90TH STREET, KINGS COUNTY, CITY OF NEW YORK, STATE OF NEW YORK, UNITED STATES OF AMERICA.

Application No. 725/Cal/77 filed May 16, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

21 Claims.

An umbrella having a shaft and handle portion comprising a flexible canopy and fluid filled enclosed space having a compressible fluid reservoir portion and a fluid inflatable portion, and means for transferring said fluid therebetween; said fluid inflatable portion mutually cooperatively associated with said

canopy whereby when said fluid is transferred to said inflatable portion, said canopy forms a generally rigid open configuration placing said umbrella in an open condition, and when said fluid is transferred to said fluid reservoir, said canopy forms a generally collapsed contracted closed configuration placing said umbrella in a closed condition.

Comp. Specn. 13 Pages.

Drg. 1 Sheet.

CLASS 85J.

148404.

Int. Cl.-F27d 21/00.

#### FLAME DETECTOR.

*Applicant* : FORNEY INTERNATIONAL, INC, AT 3405 WILEY POST ROAD, CARROLLTON TEXAS, U.S.A.

*Inventor* : WILLIAM J. MOORE.

Application No. 1072/Cal/77 filed July 12, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims.

A flame detector device for use with a movable mounted burner in a boiler furnace comprising: a radiation sensitive means outside of said furnace and responsive when energized by incident radiation of a selected energy band width to produce a signal indicative of the existence of a flame; a lens of quartz material; a lens housing supporting said lens, said lens housing being connected with said burner so that said lens is focused on the combustion zone of said burner; a flexible tube connected at one end to said housing and at the other end to said radiation sensitive means; and a fiber optics bundle extending through said flexible tube for conveying the collected radiation from said lens to said radiation sensitive means, said fiber optics bundle comprising fibers of extruded unclad quartz material capable of conveying radiation without significant loss thereof.

Comp. Specn. 14 Pages.

Drg. 1 Sheet.

CLASS 70B & C.

148405.

Int. Cl.-H01j 35/08.

#### METHOD OF PRODUCING COATED X-RAY ANODES AND X-RAY ANODES HAVING SUCH COATINGS.

*Applicant* : GENERAL ELECTRIC COMPANY, OF 1 RIVER ROAD, SCHENECTADY 5, NEW YORK, UNITED STATES OF AMERICA.

*Inventors* : ROBERT EUGENE HUESCHAN AND RICHARD ARLEN JENS.

Application No. 1664/Cal/77 filed November 30, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

22 Claims.

A coated anode for use in an X-ray tube having a coating thereon to provide enhanced thermal emittance, said coating having been applied on selected portion/s of the anode and made up of a mixture comprising 2.5% upto 20% by weight of TiO<sub>2</sub>, at least one first oxide totalling the range of 70% to 93.5% by weight consisting of ZrO<sub>2</sub>, HfO<sub>2</sub>, MgO, CeO<sub>2</sub>, La<sub>2</sub>O<sub>3</sub> or SrO, and at least one second oxide for stabilizing the oxide of said first group consisting of CaO or Y<sub>2</sub>O<sub>3</sub>, the amount of oxide from said second group making up the difference between 100 weight percent and the sum of the percentages of TiO<sub>2</sub> and the oxide or oxides from said first group which coating is held bounded to the surface of the anode by heating at a pressure of 10<sup>-5</sup> Torr or lower end at a temperature in the range of 165°C to 1900°C.

Comp. Specn. 18 Pages.

Drg. 1 Sheet.

CLASS 172A & E.

148406.

Int. Cl.-B65h 75/02.

#### BOBBINS FOR THREAD-FORM OR STRIP FORM MATERIAL.

*Applicant* : HACOBA TEXTILMASCHINEN GMBH & CO. KG., OF 5600 WUPPERTAL 2, FEDERAL REPUBLIC OF GERMANY.

*Inventor* : RUDOLF DEE.

Application No. 1716/Cal/77 filed December 9, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

21 Claims.

A bobbin for thread-form or strip-form material comprising a sleeve portion, and means defining a circumferential channel to receive the end of a length of material therein and comprising a channel-defining element on one side of the channel which is separable from or an integral part of the bobbin and which is arranged to narrow the channel at a boundary thereof to form a thread-clamping slot, in which the channel-defining element comprises a reflexive snap ring which is selectively displaceable between a first position and a second position by an over-centre snap action, said first position enabling a thread to be held clamped in said slot and said second position being an open position enabling access to be gained to said channel.

Comp. Specn. 22 Pages.

Drg. 7 Sheets.

CLASS 85J.

148407.

Int. Cl.-F27d 23/00.

#### TUBULAR COOLED MEMBERS OF METALLURGICAL FURNACE.

*Applicant* : VSESOJUZNY NAUCHNO-ISSLEDOVATELSKY I PROEKTNY INSTITUT PO OCHISTKE TEKHNOLOGICHESKIKH GAZOV, STOCHNYKH VOD I ISPOLZOVANIYU VTORICHNYKH ENEROORESURSOV PREDPRIYATY CHERNOI METALLURGII (VNJPICHLRMETENER-GOOCHISTKA), PROSPEKT LEINA, 9, KHARKOV, USSR.

*Inventor* : JURY IVANOVICH TSELUIKO, DORINA BORISOVNA KUTSYKOVICH, LJUDMILA ALEXEEVNA SHABELNIKOVA, VLADIMIR PAVLOVICH KOLOPOV, NIKOLAI GAVRILOVICH SCHEKIN, LEV DMITRIEVICH GRITSUK AND LEONID BORISOVICH KATSENELBENBOGEN.

Application No. 78/Cal/78 filed January 20, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

8 Claims.

Tubular cooled members of a metallurgical furnace, said members comprising straight cooled pipes, the interior of each pipe accommodating a coaxial insert diminishing in cross-section in the direction of flow of a coolant.

Comp. Specn. 8 Pages.

Drg. 1 Sheet.

CLASS 174B.

148408.

Int. Cl.-B68g 13/00.

#### CUSHION SUPPORT ELEMENT.

*Applicant* : YOUNGFLEX S. A., OF 1, RUE FRIES, 1701 FRIBOURG, SWITZERLAND.

*Inventor* : DAVID THOMAS GRJEF ITHS.

Application No. 195/Cal/78 filed February 21, 1978.

Convention date February 28, 1977/(08410/77) U.K.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims.

A cushion support element for a seat, bed or structure comprising two opposed, lateral, side edge wires sheathed in a compressible material and between which are connected a plurality of parallel, transverse wires of tempered spring wire, each of said transverse wires being connected to said side edge wires by being wound around the compressible sheathing and then hooked over upon itself, the shape of the hooked end of the wire having a substantially U-shaped configuration, with one limb of the U forming a continuation of the winding embracing said sheathing and the other extending back towards the sheathing with its free end terminating in contact with said sheathing.

Comp. Specn. 9 Pages.

Drg. 2 Sheets.

CLASS 32A<sub>1</sub> & A<sub>4</sub> & 40F. 148409.  
Int. Cl.-C09b 67/00.

PROCESS FOR THE PREPARATION OF ABRASION RESISTANT, NONDUSTING AND WATER-SOLUBLE DYE STUFF PARTICLES IN A FLUIDIZED BED.

*Applicant*: HOECHST AKTIENGESELLSCHAFT OF 6230 FRANKFURT/MAIN 80, FEDERAL REPUBLIC OF GERMANY.

*Inventors*: GERHARD NOLTNER, HEINRICH POHMANN, EBERHARD RITTER AND DIETER WAGNER.

Application No. 381/Cal/78 filed April 7, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims.

Process for the preparation of abrasion resistant, nondusting, water-soluble dyestuff particles, which comprises spraying water or an aqueous solution containing dyestuff in an amount up to saturation into a fluidized bed of dyestuff particles generated by a gas current, which is capable of adsorbing humidity.

Comp. Specn. 7 Pages. Drg. 1 Sheet.

CLASS 128F & L 148410.  
Int. Cl.-A45d 33/02, A61j 7/00.

INHALATION DEVICE FOR ENCAPSULATED POWDERED MEDICAMENTS.

*Applicant*: ALLEN & HANBURYS LIMITED, OF THREE COLTS LANE, BETHNAL GREEN, LONDON E2, ENGLAND.

*Inventors*: GERALD WYNN HALLWORTH AND DAVID CLOUGH.

Application No. 465/Cal/78 filed April 28, 1978.

Convention date April 29, 1977/(17976/77) U.K. & January 11, 1978/(01053/78) U.K.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

8 Claims.

An inhalation device for use in administering medicaments from capsules of the kind having a capsule body and a capsule cap which partly overlaps the capsule body, the said device comprising a hollow body shell defining a chamber and having an air inlet into the chamber and closed at one end; a nozzle through which a patient can inhale air from the chamber; capsule retaining means having an inlet opening outside the chamber through which the capsule can be inserted and being arranged to retain an inserted capsule with a portion of the capsule body projecting into the chamber as well as to squeeze and deform the overlapping portions of the capsule body and the capsule cap; capsule opening means located inside the chamber; the said opening means and the said retaining means being relatively movable and being so disposed that relative movement between them would bring the projecting portion of an inserted capsule and the opening means into engagement with one another thereby to separate the capsule from the capsule cap a guard for preventing the separated capsule body from passing through the nozzle, when air is aspirated there through.

Comp. Specn. 16 Pages. Drg. 3 Sheets.

CLASS 172D<sub>1</sub> & D<sub>4</sub>. 148411.  
Int. Cl.-D01h 7/60.

IMPROVEMENTS IN TRAVELLERS FOR RING SPINNING MACHINES.

*Applicant*: EADIE BROS. & CO. LIMITED, OF VICTORIA WORKS, PAISLEY, COUNTY OF RENFREW, SCOTLAND.

*Inventors*: BRAIN KENNETH MCGREGOR EADIE, WILLIAM HOLME CAMERON PARKER AND WILLIAM ANDREW WHITE.

Application No. 508/Cal/78 filed May 11, 1978.

Convention date May 14, 1977/(20350/77) U.K.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

4 Claims.

An integral traveller for ring spinning machines comprising two parallel limbs meeting at an apex at an included angle in the range of 110°-120° to the horizontal, the apex being symmetrical between the two parallel limbs and an inturned portion on the end of one limb for engagement, in use, with a shoulder on the outer surface of the ring.

Comp. Specn. 4 Pages.

Drg. 1 Sheet.

CLASS 32C & F<sub>2b</sub> & 55E<sub>4</sub> & F. 148412.

Int. Cl.-C07c 59/30.

AN IMPROVED PROCESS FOR THE ELECTROLYTIC PRODUCTION OF GLYOXYLIC ACID FROM OXALIC ACID.

*Applicant*: COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFT MARG, NEW DELHI-110001, INDIA.

*Inventors*: HANDADY VENKATAKRISHNA UDUPA, KODETHOOR SHRIVARA UDUPA, SUBBARAYAN THANG AVELU, POOMINATHAN SUBBAIH, KRISHNAMOORTHY JAYARAMAN AND PACHAIMUTHU THIRUNAVUKKARASU.

Application No. 515/Del/77 filed December 28, 1977.

Complete Specification left December 15, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

6 Claims.

An improved process for the electrolytic production of glyoxylic acid from oxalic acid in an electrolytic diaphragm cell characterised in that an aqueous solution of oxalic acid is used as catholyte and dilute sulphuric acid as anolyte and separating the unreacted oxalic acid from the catholyte by crystallisation to obtain glyoxylic acid in the filtrate.

Prov. Specn. 5 Pages. Comp. Specn. 11 Pages.

Drg. 1 Sheet.

CLASS 29A & 67C. 148413.

Int. Cl.-G06k 15/00.

APPARATUS FOR DISPLAYING AN ANALOG SIGNAL WHICH OCCURS IN A COMPUTER CONTROLLED MACHINE TOOL CIRCUIT.

*Applicant*: KEARNEY & TRECKER CORPORATION, AT 11000 THEODORE TRECKER WAY, WEST ALLIS, WISCONSIN, 53214, UNITED STATES OF AMERICA.

*Inventors*: RICHARD JOHNSTONE AND LYLE D. OSTBY.

Application No. 51/Del/78 filed January 19, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

15 Claims.

Apparatus for displaying an analog signal which occurs in a computer controlled machine tool circuit on an analog display device which is located in a site remote from the machine tool site, comprising probe means for picking up the desired analog signal in said machine tool circuit, an analog to digital converter coupled to the output of said probe means for converting said analog signal into a sequence of digital signals each of which represents the instantaneous amplitude of said analog signal at a corresponding time, a first memory at said

machine tool site for storing said sequence of digital signals, means for transmitting said sequence of digital signals, means for transmitting said sequence of digital signals to said remote site, means at said remote site for receiving said transmitted sequence of digital signals, a second memory at said remote site for storing said received sequence of digital signals, a digital to analog converted at said remote site for converting said sequence of digital signals into an approximation of said analog signal, and an analog display device coupled to the output of said digital to analog converted for displaying said approximation of said analog signal.

Comp. Specn. 20 Pages.

Drg. 5 Sheets.

CLASS 129P.

148414.

Int. Cl.-B23b 5/00.

#### A MACHINE FOR TURNING ARTICLES.

*Applicant* : USM CORPORATION, AT 426 COLT HIGH-WAY, FARMINGTON, CONNECTICUT, UNITED STATES OF AMERICA.

*Inventors* : WILLIAM REED MILLER, JR., AND WORTHY JOSEPH FORWARD, JR.

Application No. 160/Del/78 filed February 28, 1978.

Convention date February 1, 1978/(296,003/78)  
CANADA.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

12 Claims.

A machine for turning articles between a pair of head stocks comprising opposing centers on a turning axis of said machine, said article being driven in rotation through frictional engagement with an arrangement of drivers mounted on at least one rotatably driven face plate, characterized in that said machine comprises : at least two driver arms each pivotably mounted on a pivot/post on each of said face plates for arcuate motion in a plane parallel to the plane of said face plate; each driver arm including a bit assembly mounted for slidably movement therewith along an axis perpendicular to the plane of said face plate; means for synchronously pivoting said driver arms so that the radial position with respect to said centers of each of said bit assemblies on each of said face plates may be set to a corresponding radial dimension; and means for moving said bit assemblies into contact with said articles to be turned.

Comp. Specn. 15 Pages.

Drg. 3 Sheets.

CLASS 155A & B.

148415.

Int. Cl.-D06m 15/00.

#### A METHOD OF PRODUCING FLEXIBLE TUBULAR STRUCTURE FOR USE IN LINING PASSAGE WAYS.

*Applicant* : INSITUFORM INTERNATIONAL INC., OF P.O. BOX 840, CURACAO, ANTILLES, NETHERLANDS.

*Inventor* : ERIC WOOD.

Application No. 313/Del/78 filed April 27, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

5 Claims.

A method of producing a flexible tubular structure for use in lining passageways in the manner set forth herein, wherein a web of felt is coated on one side with a gas impermeable layer of synthetic resin so that the resin bonds to the felt and the coated felt is formed into tubular form with the resin layer to the outside.

Comp. Specn. 7 Pages.

Drg. 1 Sheet.

CLASS 32F·b.

148416.

Int. Cl.-C07d 5/40.

#### A PROCESS FOR THE SYNTHESIS OF 3-(2-BENZOFURANYL)-3-ALKYL-2, 2-DIMETHYL PROPIONIC ACIDS AS ANTIFERTILITY AGENTS.

*Applicant* : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-110001, INDIA.

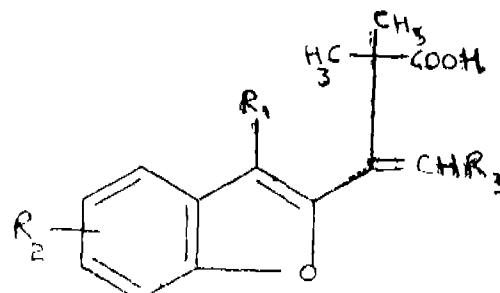
*Inventors* : KAMBHAMPUTI VENKATA BABU RAO, JANAK DULART DHAR, BACHU SREENIVASULU SETTY AND RAMAN NARAYANA IYER.

Application No. 384/Del/78 filed May 20, 1978.

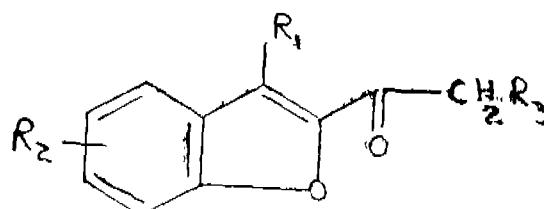
Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

5 Claims.

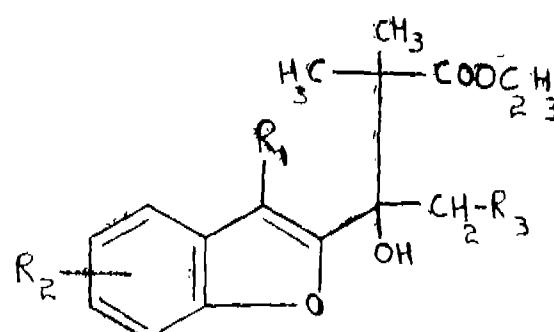
Process for the preparation of 3-(2-benzofuranyl)-3-alkyl-2, 2-dimethylpropionic acids of general formula V.



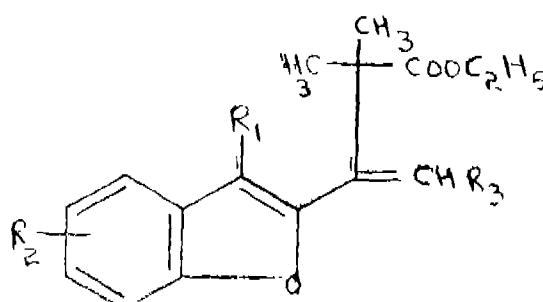
comprising the steps of (1) treating a substituted 2-alkylbenzofuran of formula I.



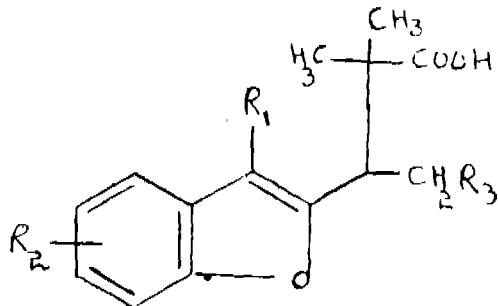
with ethyl bromoiso, butyrate and magnesium in tetrahydrofuran to obtain ethyl 3-(2-benzofuranyl)-3-alkyl-3-hydroxy-2, 2-dimethyl, propionate of formula II.



dehydrating the ester of formula II to form an ethylenic ester of formula III.



saponifying the ethylenic ester of formula III to an ethylenic acid of formula IV.



and (4) hydrogenating the ethylenic acid of formula IV to obtain the 3, 2-(benzofuranyl)-3-alkyl-2, 2-dimethyl propionic acid of formula V, wherein  $R^1$  and  $R^2$  are hydrogen or a methyl group and  $R^3$  is hydrogen or a methoxy group in the positions 4, 5, 6 or 7 of the benzofuran moiety.

Comp. Specn. 5 Pages.

Drg. 1 Sheet.

CLASS 47B.

148417.

Int. Cl.-F23k 3/00.

**SOLIDS-HANDLING PUMP SUITABLE FOR PUMPING PARTICULATE SOLID FUEL INTO A VESSEL UNDER PRESSURE.**

*Applicant : KRUPP-KOPPERS GMBH., MOLTKESTRASSE 29, 4300 ESSEN, WEST GERMANY.*

*Inventor : ULRICH GEIDIES.*

Application No. 385/Del/78 filed May 23, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

10 Claims.

A solids handling pump suitable for pumping particulate solids fuel into a vessel under a pressure of up to 80 atmospheres gauge, comprising two interconnected pistons movable in a cylinder and having a free volume between the two pistons within which to accept the particulate solid fuel when in the cylinder is provided with inlet means for the particulate solid fuel which connects with the free volume when the pistons are at the one end of the stroke and outlet means for the particulate solid fuel within the high pressure vessel which connects with the free volume when the pistons are at the other end of the stroke and a gas inlet located so that, before but not at, the outlet end of the stroke the free volume is connected to both the gas inlet and the outlet means.

Comp. Specn. 13 Pages.

Drg. 4 Sheets.

**PRINTED SPECIFICATION PUBLISHED**

A limited number of printed copies of the undernoted specifications are available for sale from the Officer-in-Charge, Government of India, Central Book Depot, 8, Hastings Street, Calcutta, at two rupees per copy :—

(1).

109285

(2).

118187

(3)

110812 113557 113672 113883 115021 115388 117879 120675

(4).

115105

(5)

114260 114969 115184 115514 115771 117264

(6)  
116938 118074

(7)  
116581

(8)  
115169 116345 121258

(9)  
120019 121211 131224 137220 137221 137224

(10)  
99765 121574 137454 137481

(11)  
95631 97160 103794 111051 113722 120702 124080 137520

(12)  
139940

(13)  
141631 141635 141636 141648

(14)  
147580 147582 147583 147585 147587 147589 147590 147591

(15)  
147572 147573 147574 147575 147576 147577 147579.

**PATENTS SEALED**

146614 146624 146638 147008 147047 147055 147143 137246  
147252 147253 147316 147317 147344 147348 147363 147364  
147372 147373 147378 147379 147410 147449 147458.

**CLAIM UNDER SECTION 20(1) OF THE PATENTS ACT, 1970**

(1)

Notice is hereby given that the claim made by The Director General Cement Research Institute of India under section 20(1) of the Patents Act, 1970 to proceed the application for Patent No. 143261 in his name has been allowed.

(2)

Notice is hereby given that the claim made by M/s. Bharat Heavy Electricals Limited, under section 20(1) of the Patents Act, 1970 to proceed the Patent application No. 143656 in their name has been allowed.

(3)

Notice is hereby given that the claim made by Ladislav Joseph Pircon under section 20(1) of the Patents Act, 1970, to proceed the application for Patent No. 147851 in his name has been allowed.

**AMENDMENT PROCEEDINGS UNDER SECTION 57.**

Notice is hereby given that Vereinigte Oesterreichische Eisen-Und Stahlwerke-Alpine Montan Aktiengesellschaft, of A-1011 Vienna, Friedrichstrasse 4, Austria, a company organised under the laws of Austria, have made an application under section 57 of the Patents Act, 1970 for amendment of the specification of his application for patent No. 147652 for "Device for separating dust particles from an air stream". The amendments are by way of amendment of name of the applicants from "Vereinigte Oesterreichische Eisen-Und Stahlwerke-Alpine Montan Aktiengesellschaft", to "Voest-Alpine Aktiengesellschaft". The application for amendment and the proposed amendments can be inspected free of charge at the Patent Office, 214, Acharya Jagdish Bose Road, Calcutta-700 017 or copies of the same can be had on payment of the usual copying charges. Any person interested in opposing the application for amendment may file a notice of opposition on the prescribed form 30 within three months from the date of this notification at the Patent Office, Calcutta. If the written statement of opposition is not filed with the notice of opposition it shall be left within one month from the date of filing the said notice.

## COMMERCIAL WORKING OF PATENTED INVENTION

The following Patents in the field of Chemical Industry are not being commercially worked in India as admitted by the Patentees in the statement filed by them under Section 146(2) of Patent Act, 1970 in respect of Calendar Year 1979, generally on account of want of requests for licences to work the patented inventions.

Persons who are interested to work the said patents commercially may contact the Patentees for the grant of a licence for the purpose.

S. No.	Patent No.	Date of Patent	Name and address of the Patentee	Title	
1	2	3	4	5	
1.	135236	11-04-1972	FMC CORPORATION, 633, Third Avenue, New York 17, New York USA.	Coating of reactive form coke by catalytic deposition of glass carbon.	
2.	135246	11-04-1972	E. I. DU PONT DE NEMOURS AND COMPANY, Wilmington Delaware, USA.	Improved polyamide fibers and films.	
3.	135270	13-04-1972	USS ENGINEERS AND CONSULTANTS, INC., 600 Grant Street, Pittsburgh, State of Pennsylvania, U.S.A.	Low carbon steel with improved magnetic properties.	
4.	135315	18-04-1972	(1) NITTO CHEMICAL INDUSTRY COMPANY LIMITED, No. 5-1, Marunouchi 1-Chome, Chiyoda-ku, Tokyo. (2) MITSUBISI RAYON COMPANY LIMITED, 8, 2-Chome, Kyobashi, Chuo-ku, Tokyo-70, Japan.	Production of acetone cyanohydrin.	
5.	135328	19-04-1972	UNILEVER LIMITED, Unilever House, Blackfriars, London, E.C. 4, England.	Preparation of an instant tea powder.	
6.	135360	04-12-1970	SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V., Cavel Van Bylandtlaan 30, The Hague, The Netherlands.	An improved process for the preparation of one or more oxirane compounds.	
7.	135366	19-06-1972	ALFA-LAVAL AKTIEBOLAG, Postfack, S-147 00 Tumba, Sweden.	Method of bringing about a reaction between a liquid and a gas.	
8.	135382	15-02-1971	SNAMPROGETTI S.P.A., 16 Corso Venezia, Milan, Italy.	Process for polymerising a conjugated diene.	
9.	135383	15-02-1971	Do.	Do.	Process for preparing a polyimine of aluminium.
10.	135402	08-06-1972	PHILLIPS PETROLEUM COMPANY, Bartlesvilla, State of Oklahoma, USA.	A disproportionation process for the conversion of an alkali metal salt of an aromatic carboxylic acids to an aromatic polycarboxylate.	
11.	135436	27-07-1971	JOHNSON & JOHNSON, 501, George Street, New Brunswick, New Jersey, U.S.A.	Improved resin binder compositions useful for binding a fibrous web.	
12.	135477	29-07-1972	UOP INC. Ten UOP Plaza—Algonquin & Mt. Prospect Roads, Illinois, U.S.A.	Hydrocarbon separation process.	
13.	135496	27-06-1972	Do.	Do.	Conversion of Alkylnaromatic hydrocarbon to alkenynaromatic hydrocarbons.
14.	135497	15-06-1972	IMPERIAL CHEMICAL INDUSTRIES LIMITED, Imperial Chemical House, Millbank, London SW1, England.	Controlled feeding of powdered material.	
15.	135507	24-09-1971	UNION CARBIDE CORPORATION, 270, Park Avenue, New York, State of New York, U.S.A.	A process for improving the Properties of ethylene polymerization catalysts.	
16.	135544	06-07-1972	UOP INC., Ten UOP Plaza—Algonquin & Mt. Prospect Roads, Illinois, U.S.A.	Production of liquefied petroleum gas.	
17.	135550	11-08-1970	IMPERIAL CHEMICAL INDUSTRIES LIMITED, Imperial Chemical House, Millbank, London, SW1 England.	Olefin polymerisation.	
18.	135551	27-04-1972	UOP INC., Ten UOP Plaza—Algonquin & Met., Prospect Roads, Illinois, U.S.A.	Steam reforming of hydrocarbons.	

1	2	3	4	5	
19.	135581	14-10-1971	MEAD CORPORATION, Tolbolt Tower, Dayton, Ohio 45402, U.S.A.	Apparatus for conducting chemical reactants between fluid reactants.	
20.	135629	23-05-1972	HOECHST AG, 45, Bruning Strasse, Frankfurt/Main, FRG.	Manufacture of water-insoluble monoazo dyestuffs.	
21.	135634	06-06-1972	THE SOCIATE MINIERE ET METALLURGIQUE DE PENORROYA, 1, Boulevard De Vaugirard, Paris 15, France.	Improved reactor for the production of lead oxide with a high free lead content.	
22.	135639	02-08-1972	THE RUBBER RESEARCH INSTITUTE OF MALAYA, 3rd Mile Ampang Road, Kuala Lumpur, Malaysia.	A method of removing protein from natural rubber.	
23.	135666	26-06-1972	EXTRACOTPOREAL MEDICAL SPECIALTIES INC., Roal and Ross Road, King of Prussia, State of Pennsylvania, U.S.A.	Separable surgical needle.	
24.	135690	24-10-1972	FMC CORPORATION, 633, Third Avenue, New York 17, New York, USA.	Producing carbonaceous iron bearing briquettes.	
25.	135692	05-05-1972	SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V., Carel Van Bylandtlaan 30, The Hague, The Netherlands.	Gas mixtures containing carbon monoxide and hydrogen by the partial combustion of a fuel in a reactor operated at a relatively low pressure.	
26.	135702	27-04-1972	HOECHST AG, 45 Bruningstrasse, Frankfurt/Main, FRG.	Process for preparing pigment preparations.	
27.	135770	14-06-1972	HOWSON—ALGRAPHY LIMITED, Vickers House, Millbank Tower, Millbank, London SW1, England.	Light sensitive materials.	
28.	135780	22-08-1972	E. I. DU PONT DE NEMOORS & COMPANY, Willmington, Delaware, USA.	Preparation of textured polyester yarn.	
29.	135799	17-05-1972	THE GOODYEAR TIRE & RUBBER COMPANY, 1144 East Market Street, Akron, Ohio, U.S.A.	Process for preparing age resistant polymers.	
30.	135803	03-05-1972	UOP INC., Ten UOP Plaza—Algonquin & Mt., Prospect Roads, Illinois, U.S.A.	Fluidized catalytic cracking or fluidized catalytic dehydrogenation process.	
31.	135805	23-10-1972	TEXACO DEVELOPMENT CORPORATION, 135 East 42nd Street, New York, New York 10017, U.S.A.	Production of a reducing gas.	
32.	135810	04-09-1972	HOECHST AG, 45, Bruningstrasse, Frankfurt/Main, FRG.	Preparation of fast dyeings and prints on fibrous material containing hydroxyl groups on nitrogen.	
33.	135863	05-07-1972	RHONE-PROGIL, 6 rue Piccini, 75 Paris 16e, France.	A process for carrying out bulk polymerisation.	
34.	135869	27-06-1972	"REDOX" DESENVOL VINENTOE EXPDORAGAO DE PROCESSOS SIDERGICOS LIMITADA, Rue Pasteur 543, Curitiba, (Parana), Brazil.	Process and apparatus for the Direct production of steel.	
35.	135875	22-07-1972	HAYASHIBARA BIOCHEMICAL LABORATORIES INCORPORATED, No. 2-3, 1-Chome, Chimoishii, Okayamashi, Okayama-Ken, Japan.	Shaped bodies from pullulan or a mixture thereof, with any loss PVA and gelatin.	
36.	135879	27-02-1972	HINDUSTAN LEVER LIMITED, Hindustan Lever House, 165/166, Backbay Reclamation, Bombay-400 020.	Soap sulphonate tablets.	
37.	135899	23-05-1972	Do.	Do.	A method of Protecting hypochlorites for inclusion in a detergent composition.
38.	135900	27-04-1972	HORIZONS RESEARCH INCORPORATED, 23800 Merchantile Road, Cleveland, Ohio, U.S.A.	Controlled polymerisation of hexachlorophosphazene.	
39.	135901	26-05-1972	FAUDI FEINBAV GMBH, 637 Oberusel, Taunus, IM Diezen 4, FRG.	Separating elements for separating solids and water from fluids.	
40.	135902	10-07-1972	THE GOODYEAR TIRE & RUBBER COMPANY 1144, East Market Street, Akron, Ohio, U.S.A.	Process of preparing 2-(4-morpholinodithio)-benzo thiazole.	

1	2	3	4	5
41.	135937	04-07-1972	HOECHST AG, 45 Bruning Strasse, Frankfurt/Main, FRG.	Process for the preparation of water-soluble reactive xanthene dyestuffs.
42.	135954	27-04-1972	SHYAM SUNDER GHOSH, BELPAHAR REFRactories LIMITED, P. O. Belpahar, S. E. Railway, Orissa, India.	Process for making zircon based abrasion resistant tiles, bricks mould liners and the like and the articles made thereby.
43.	135960	15-02-1973	INDIAN JUTE INDUSTRIES RESEARCH ASSOCIATION, 17, Taratola Road, Calcutta-700 053, India.	Determining oil content in textile products.
44.	135973	15-05-1972	HINDUSTAN LEVER LIMITED, Hindustan Lever House, 165/166, Backbay Reclamation, Bombay 400 020.	Preparation of trisodium chlorophosphate.
45.	136009	08-05-1972	SHIN-ETSO CHEMICAL COMPANY LIMITED, 6-1, Otemachi 2-Chome, Chiyodaka, Tokyo, Japan.	Suspension polymerizing vinyl chloride.
46.	136010	06-09-1972	FMC CORPORATION, 633, Third Avenue, New York-17, New York, USA.	Curing of green briquettes with air.
47.	136024	11-08-1972	CINCINNATI MILACRON CHEMICALS, INC., Reading, State of Ohio, USA.	Preparation of dimethyltin esters.
48.	136025	20-07-1972	DR. CARL HAHN GMBH, Kaiservorwerther Strasse 270, 4000 Dusseldorf, West Germany.	A process and installation for the manufacture of tampons.
49.	136034	15-04-1972	NL INDUSTRIES INC., 111 Broadway, New York, New York 10016, USA.	Sintered unitary ceramic bodies and method of making them.
50.	136068	10-05-1972	KALI-CHEMIE AKTIENGESELLSCHAFT, Haus-Bockler-Allee 20, Hannover 3, FRG.	Method of producing a calcined alkali metal phosphate fertilizer.
51.	136070	25-04-1972	CITIES SERVICE COMPANY, 60, Wall Street in the City country and state of New York, U.S.A.	Pelletizing process.
52.	136072	16-08-1972	LIBBEY OWENS-FORD COMPANY, 811, Madison Avenue, Toledo, Ohio, USA.	Bending and tempering glass sheets.
53.	136076	28-04-1972	HINDUSTAN LEVER LIMITED, Hindustan Lever House, 165/166, Backbay Reclamation, Bombay-400 020.	Detergent composition and a method for preparing the same.
54.	136091	09-08-1972	Do. Do.	Scouring powder.
55.	136094	31-01-1973	FARBWERKE HOECHST AKTIENGESELLSCHAFT, 45, Bruning Strasse, Frankfurt/Main, FRG.	Preparation of 1-hydroxy-2-pyridones.
56.	136099	25-08-1972	ZIMMER AG, 6, Frankfurt/Main Borsigallee, German Federal Republic.	Stretching a cable of polyester threads.
57.	136108	20-06-1972	HOECHST AG, 45, Bruning Strasse, Frankfurt/Main, FRG.	Preparation of chloroformic acid aryl esters and cyclic carbonates.
58.	136123	01-08-1972	CIBA-GEIGY AG, Kiybeekstrasse 141, Basle, Switzerland.	Dyestuff salts.
59.	136168	05-01-1973	SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V., Carel Van Bylandtlaan 30, The Hague, The Netherlands.	Silver catalyst.
60.	136181	11-06-1973	MONSANTO COMPANY, 800 North Lindbergh Boulevard, St. Louis, Missouri 63166, U.S.A.	Preparing 1, 2, 3-trichloropropene.
61.	136198	31-10-1972	ECAR PRODUCTS INC., Wilmington, Delaware, U.S.A.	De-inking printed waste cellulosic stock.
62.	136206	29-01-1973	IMPERIAL CHEMICAL INDUSTRIES LIMITED, Imperial Chemical House, Millbank, London, SW1, London.	Porous diaphragms.
63.	136235	23-05-1972	UOP INC., Ten UOP Plaza-Algonquin & Mt., Prospect Roads, Des Plaines, Illinois, U.S.A.	System for hydrocarbon conversion process.
64.	136237	21-08-1972	HOECHST AG, 45, Bruning Strasse, Frankfurt/Main, FRG.	Novel-water soluble monoazo dyestuffs.

1	2	3	4	5
65.	136241	28-06-1972	BATTELLE DEVELOPMENT CORPORATION, 505 King Avenue, Columbus, Ohio, 43201, U.S.A.	Improving flexural strength in fiber containing concrete.
66.	136242	03-05-1972	HOECHST AG, 45, Bruning Strasse, Frankfurt/Main, FRG.	Water-soluble monoazo dyestuffs.
67.	136262	17-08-1972	Do.	New water soluble monoazo pyrazolone dyestuffs.
68.	136330	15-01-1972	ETICON INC, Somerville, New Jersey, U.S.A.	Retention suture bridge.
69.	136340	05-01-1973	SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V., Carel Van, Bylandtlaan 30, The Hague, The Netherlands.	Preparation of ethylene oxide.
70.	136343	30-10-1972	SIEMENS AG, Berlin & Munich, West Germany.	Production of cross-linked polyethylene sheathing and/or insulation in an electric cable or conductors.
71.	136349	11-07-1972	FARBWERKE HOECHST AKTIENGESELLSCHAFT, 45, Bruningstrasse, Frankfurt/Main FRG.	Preparation of fluoro carbon waxes.
72.	136350	21-06-1972	WESTINGHOUSE ELECTRIC CORPORATION, Pittsburgh, Pennsylvania, U.S.A.	Thermosettable pressure-sensitive adhesive tape.
73.	136375	01-12-1972	EISENWERKE-GESELLSCHAFT MAXIMILIANSHUTTE, M.B.H., 8458 Sulzbach Rosenberg Huite, West Germany.	Refining to low-phosphorous pig iron to make steel.
74.	136395	29-09-1972	UNION CARBIDE CORPORATION, 270 Park Avenue, New York, State of New York, U.S.A.	Reduced mercury-containing zinc alkaline cells.
75.	136459	31-07-1972	UOP INC., Ten UOP Plaza-Algonquin & Mt., Prospect Roads, Des Plaines, Illinois, U.S.A.	Production of aryl-substituted N-paraffins.
76.	136470	29-09-1972	AMCHEM PRODUCTS INC., Brookside Avenue, Pennsylvania, U.S.A.	Composition for clearing and activation of ferrous and/or zinc surface.
77.	136487	25-05-1973	CSIR, Rafi Marg, New Delhi.	New Aluminium alloy for electrical conductor having high ductility.
78.	136577	30-01-1973	OXYSYNTHESE, 6 Rue Cognacq-Jay, 75007 Paris, France.	Purifying apparatus for industrial flue gases, combustion products and gaseous effluents before rejection to atmosphere.
79.	136587	20-02-1973	ELITEX ZAVODY TEXTILNIHO STROJI-RENETVI REDITELSTVI, Liberec, Czechoslovakia.	Washing rotary stencils for printing web materials like textiles.
80.	136597	22-02-1973	DR. CARL HAHN GMBH, Kaiserswerther Strasse 270, D-4000 Dusseldorf, West Germany.	Tampon applicator.
81.	136614	26-08-1972	SHELL INTERNATIONAL RESEARCH MAATSCHAPPIJ B.V., Carel Van, Bylandtlaan 30, The Hague, The Netherlands.	Concentration and purification of aqueous solutions of ethylene oxide.
82.	136638	18-05-1972	VYZKUMNY USTAV ORGANICKYCH SYNTEZ, Pardubice-Rybitvi Czechoslovakia.	Automatic production of azodyestuff.
83.	136642	14-07-1972	KWADA KOGYO KABUSHIKI KAISHA, 4610, Nojima, Fukunomachi, Higashitonomigun, Toyamaken, Japan.	Composite beam made steel beam and concrete.
84.	136652	05-07-1972	N. V. HOLLANDSE SIGNAALAPPARATEN, 40 Zuidelijke, Havenweg, Haagse (O) The Netherlands.	Manufacture of yarn.
85.	136722	20-06-1972	C.S.I.R., Rafi Marg, New Delhi.	Production of an acrylic solution polymer as a top coat finish for finished leathers wood and metallic surface.
86.	136756	12-02-1973	STUART ALLAN BRODSKY, 271 Love Lane, Warwick, Rhode Island, U.S.A.	Vasectomy procedure instrument.

1	2	3	4	5
87.	136768	27-07-1971	JOHNSON & JOHNSON, 501 George Street, New Brunswick, New Jersey, U.S.A.	Synthetic resin binder composition for bonding porous absorbent fibrous materials.
88.	136788	13-09-1972	KAUTEX WERKE REINOLD HAGEN GMBH, 5300, Bonn, Holzlar 1, West Germany.	Producing hollow articles of thermoplastic synthetic resin by a blowing process.
89.	136792	30-05-1973	MONSANTO COMPANY, 800 North Lindbergh Boulevard, St. Louis, Missouri 63166, U.S.A.	Producing N-phosphonomethyl glycine.
90.	136811	16-06-1973	JOHNSON & JOHNSON, 501, George Street, New Brunswick, New Jersey, U.S.A.	Preparing acrylate adhesive composition.
91.	136819	21-10-1971	SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V., Carvel Van, Bylandtlaan 30, The Hague, The Netherlands.	Directing oxidation of ethylene with molecular oxygen to ethylene oxide.
92.	136843	26-04-1972	Do.	Recovery of ethylene oxide.
93.	136844	15-09-1972	INTERNATIONAL NICKEL LIMITED, Thames House, Millbank, London, SW1P 4QF, England.	Preparing nickel-chromium steel casting.
94.	136867	16-11-1972	IMPERIAL CHEMICAL INDUSTRIES LIMITED, Imperial Chemical House, Millbank, London, SW1, England.	Surface moderated granular propellant.
95.	136869	03-07-1973	C.S.I.R., Rafi Marg, New Delhi.	Formation of lead dioxide on lead and its alloys in chloride medium.
96.	136878	13-07-1972	GLAVERBEL MECANIVER, 166, Chausse de la Hulpe, Watermaelboitsfort, Belgium.	Sheet glass.
97.	136886	12-12-1972	HINDUSTAN LEVER LIMITED, Hindustan Lever House, 165/166, Backbay Reclamation, Bombay 400 020.	Improving the bacteriological quality of a protease.
98.	136923	21-08-1972	USS ENGINEERS AND CONSULTANTS, 600 Grant Street, Pittsburgh, State of Pennsylvania, U.S.A.	Continuous casting solidified stand of metal.
99.	136944	17-09-1973	C. S. I. R., Rafi Marg, New Delhi.	Synthesis of 3-(5-hydroxybenzo cycloalken-oxy)-2 hydroxy propylamines.

## CHEMICAL INDUSTRY—LIST NO. VI

## COMMERCIAL WORKING OF PATENTED INVENTION

The following Patents in the field of Chemical Industry are not being commercially worked in India as admitted by the Patentees in the statement filed by them under Section 146(2) of Patents Act, 1970, in respect of Calendar Year 1979, generally on account of want of requests for licences to work the patented inventions.

Persons who are interested to work the said patents commercially may contact the Patentees for the grant of a licence for the purpose.

Sl. No.	Patent No.	Date of Patent	Name and address of the party	title
1	2	3	4	5
1.	128576	24-09-1970	UOP INC., Ten UOP Plaza-Algonquin & Mt., Prospect Roads, Des Plaines, U. S. A.	Continuous reforming regeneration process.
2.	134146	31-12-1971	CLUETT, PEABODY & COMPANY INC., 433 River Street, Troy, New York, U. S. A.	Quickly treating fabrics with liquid ammonia.
3.	137015	13-10-1972	JOHNSON & JOHNSON, 501, George Street New Brunswick, New Jersey, U. S. A.	Normally tacky and pressure sensitive adhesive tape.
4.	137025	06-09-1972	VAKUUM VULK HOLDINGS LIMITED, 360, Queen Street, Nassau/Bahamas.	Retreading and vulcanising process.
5.	137049	29-11-1972	SOLVAY & CIE, 33, rue du Prince Albert, B-1050 Brussels, Belgium.	Polymerization of olefins.
6.	137060	03-10-1972	IMPERIAL CHEMICAL INDUSTRIES LIMITED, Imperial Chemical House, London SW1 England.	Petn of reduced water permeability,. A method or 'preparing it and a detonating fuse-cord containing the same.

1	2	3	4	5
7.	137061	10-10-1972	INSTITUT FRANCAIS DU PETROLE, DES CARBURANTS ET LUBRIFIANTS 1 et 4 avenue de Bois-Preau 92502, Rueil-malmaison, France.	Dehydrogenating saturated paraffinic or naphthenic hydrocarbons.
8.	137069	18-05-1973	PFIZER CORPORATION, Calle 151/2 Arenida Santa, Asabel, Color, Republic of Panama.	Citric acid production
9.	137079	07-11-1972	FIERRO ESPONJA SA, Arenida Los Angeles, al Oriente Monterrey, Republic of Mexico.	Reduction of particulate metal ores.
10.	137101	25-06-1973	SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B. V., Carel Van Bylandtlaan 30, The Hague, The Netherlands.	Partial combustion of carbonaceous fuels to produce substantially soot-free gases.
11.	137113	21-08-1972	THE LUBRIZOL CORPORATION, 3057, Euclid station, Cleland, Ohio, U. S. A.	Oil soluble basic barium containing composition.
12.	137127	15-02-1973	GEORG UTZ AG, Auhof 278, 5620 Bremgarten, Switzerland.	Pallets.
13.	137136	12-09-1972	WESTINGHOUSE ELECTRIC CORPORATION, Pittsburgh, Pennsylvania, U. S. A.	Preparing cured resinous composition suitable for insulating electrical apparatus.
14.	137154	19-01-1972	ETHICON INC., Somerville, New Jersey, U. S. A.	Electropolishing drilled surgical needles.
15.	137198	27-09-1972	PHILLIPS PETROLEUM COMPANY, Bartlesville, State of Oklahoma, U. S. A.	Preparing metal salt of aromatic carboxylic acid.
16.	137199	12-06-1973	RECHERCHES PHARMACEUTIQUES ET SCIENTIFIQUES, 6, rue Lincoln, Paris 75008, France.	Preparing S-substituted cysteines and cysteine esters.
17.	137207	12-06-1973	C. S. I. R., Rafi Marg, New Delhi, India.	Electrodeposition of zinc from cyanide bath.
18.	137274	28-04-1973	VIKRAM SARABHAI SPACE CENTRE, IS Ro Post, Trivandrum, 22, Kerala, India.	Preparing new phenolic resins.
19.	137275	17-07-1972	HINDUSTAN LEVER LIMITED, Hindustan Lever House, 165/166, Backbay Reclamation, Bombay-400020.	Skin moisturiser based on glutamic acid and/or glutamine and/or their salts.
20.	137277	10-09-1973	FERRO CORPORATION, One Erieview Plaza Cleveland, State of Ohio., U. S. A.	Continuous production of glass fiber strand.
21.	137308	01-08-1972	CIBA-GEIGY AG, Klybeckstrasse 141, Basle, Switzerland.	Manufacture of azo-dyestuffs.
22.	137350	29-01-1974	AGENCE NATIONALE DE VALORISATION DE LA RECHERCHE, 13, rue Madeleine Michelis, Neuilly-sur-seine, Hauts-de-Seine, France.	Producing an antigen fraction.
23.	137364	04-10-1972	THE LUBRIZOL CORPORATION, P. O. Box 3057, Euclid Station, Cleveland, Ohio, U. S. A.	Preparation of oil-soluble composition.
24.	137366	21-06-1973	C. S. I. R., Rafi Marg, New Delhi, India.	Electrodeposition of high speed bright hard silver.
25.	137389	31-07-1973	Do. Do.	Black chrome plating.
26.	137446	09-10-1972	FOSTER WHEELER CORPORATION, 110 South Orange Avenue, Livingston, State of New Jersey, U. S. A.	Fluidized bed reactor.
27.	137528	26-08-1974	AMERICAN HOME PRODUCTS CORPORATION, 685, Third Avenue, New York, 10017, U. S. A.	Crystalline sodium 6-(1-amino-cyclohexane carboxamide)-Penicillanate.
28.	137546	02-01-1973	THE GOODYEAR TIRE AND RUBBER COMPANY, 1144 East Market, Street, Akron, Ohio, U. S. A.	Preparing a resinous material.
29.	137638	15-12-1972	HINDUSTAN LEVER LIMITED, Hindustan Lever House, 165/166, Backbay Reclamation, Bombay-400020.	A process for inhibiting corrosive action on an aluminium, tooth paste tube.

1	2	3	4	5
30.	137738	18-08-1972	HINDUSTAN LEVER LIMITED, Hindustan Lever House, 165/166, Backbay Reclamation, Bombay-400020.	Preparation of cycloaliphatic monoterpenic alcohol
31.	137839	01-12-1973	C. S. I. R., Rafi Marg., New Delhi, India.	Etching of aluminium and its alloys for direct plating of metals.
32.	137840	07-07-1973	THE CARBORUNDUM COMPANY, 1625, Buffalo Avenue, Niagara Falls, Niagara County, State of New York, U. S. A.	Removing virus particles from fluids.
33.	137849	31-07-1973	SHEELL INTERNATIONAL RESEARCH MAATSCHAPPIJ B.V., Carel Van Bylandtlaan 30, The Hague, The Netherlands.	Manufacture of gases containing hydrogen and carbon monoxide.
34.	137870	10-08-1973	C. S. I. R., Rafi Marg, New Delhi, India	Copper/copper alloy articles with attractive and decorative finish.
35.	137872	30-11-1972	HOECHST AG, 6230 Frankfurt/Main 80, FRG.	Preparation of novel-soluble disazo dyestuffs.
36.	137904	07-07-1973	THE CARBORUNDUM COMPANY, 1625 Buffalo Avenue, Niagara Falls, Niagara county, State of New York, U. S. A.	Water purification means and method for purifying water using the same.
37.	137976	14-10-1971	MEAD CORPORATION, Talbott Tower, Dayton, Ohio 45402, U. S. A.	preparing a wet proofed catalyst composition for use in conducting a chemical reaction between reactants contained in two or more fluid phases.
38.	138020	16-12-1972	C. S. I. R., Rafi Marg, New Delhi, India.	Production of coated ferrous such as coated mild steel sheets strips with compositions based on vinyl resins.
39.	138025	22-10-1974	IMPERIAL CHEMICAL INDUSTRIES LIMITED, Imperial Chemical House, Millbank, London SW1, England.	Explosive fuse-cord.
40.	138032	18-07-1973	NAARDEN INTERNATIONAL N.V., Huizerstraatweg 28, Naarden-Bussum, The Netherlands.	Process for the preparation of sesquiterpenic ketones.
41.	138036	13-08-1973	BETHLEHEM STEEL CORPORATION, 701, East Third Street, Bethlehem, Pennsylvania, U. S. A.	Method of treating ferrous strand by hot dip coating procedure.
42.	138038	12-10-1973	HOLLANDSE SIGNAALAPPARATEN B. V., Zuidelijke, Haven weg 40, Hengelo (O) The Netherlands.	Manufacture of yarn apparatus for the application of this method and yarn obtained by applying the same method.
43.	138050	10-05-1973	NL INDUSTRIES INC., 111 Broadway, New York 10016, U.S.A.	A process for making sintered unitary ceramic bodies and said ceramic bodies made thereby.
44.	138109	09-11-1972	HOECHST AG, 6230 Frankfurt/Main 80, FRG.	Process for preparing oil-soluble dyestuff mixtures.
45.	138128	16-10-1973	HINDUSTAN LEVER LIMITED, Hindustan Lever House, 165/166, Backbay Reclamation, Bombay-400020.	Super fatted soap bars.
46.	138130	07-10-1972	ELKEM-SPIGERVERKET A/S, Middelthunsgate 27, Elkembuset, OS103, Norway	Smelting process.
47.	138156	30-08-1973	STICHTING BEDRIJVEN VAN HET NEDERLANDS INSTITUT VOOR ZUVE-LONDERZOEK, Kernhemseweg, 2 Ede, The Netherlands.	Fat emulsion.
48.	138167	01-12-1972	UOP INC., Ten UOP Plaza-Algonquin & Mt. Prospect Roads, Des Plaines, Illinois, U.S.A.	A method for reforming of hydrocarbons.
49.	138183	19-10-1972	ALUMINUM COMPANY OF AMERICA, Alcoa Building, Pittsburgh, Pennsylvania, U. S. A.	Process for the continuous production of aluminium.
50.	138185	24-11-1973	MONSANTO COMPANY 800 North Lindberge Boulevard, St. Louis, Missouri 63166, U. S. A.	Process for the production of N-organo-N-phosphonomethyl glycine-N-oxides and salts thereof.

1	2	3	4	5
51.	138192	20-02-1973	ETABLISSEMENT SALGAD, Vaduz, Liechtenstein.	Explosive projectile.
52.	138204	18-03-1974	PFIZER INC., 235, East 42nd Street, New York State of New York, U.S.A.	Process for the preparation of methyl-1-(2-quinoxalinylmethyl)cne carbamate N, N dioxide.
53.	138222	28-08-1972	C. S. I. R., Rafi Marg, New Delhi, India.	A process for the production of inchihamol from crude oil fraction.
54.	138237	04-09-1972	ALUMINUM COMPANY OF AMERICA, Alcoa Building, Pittsburgh, Pennsylvania, U.S.A.	Production of aluminium-chloride.
55.	138238	16-12-1972	SOCIETE NATIONALE DES POUDRES ET EXPLOSIFS, 12 Quai Henri IV, 75181 Paris Cedex 04, France.	A propellant powder composition and block of propellant fuel moulded from such composition.
56.	138260	01-03-1973	DUNLOP LIMITED, Dunlop House, Ryder Street, St. James's, London SW1, England.	Method of making elongated articles of polyolefin material.
57.	138330	11-06-1973	MITSUBISHI GAS CHEMICAL COMPANY LIMITED, S-2, Marunouchi, 2-Chome, Chiyoda-ku, Tokyo, Japan.	Improved method for producing anhydrous sodium hydro-sulphite using sodium formate, formic acid, or formic acid ester.
58.	138333	12-10-1972	HORIZONS RESEARCH INCORPORATED, 23800 Merchantile Road, Cleveland, Ohio, U.S.A.	Phosphazene polymers.
59.	138352	27-06-1974	RHONE-POULENC S. A., 22, Avenue Montaigne, Paris 8E, France.	Preparation of -3-(O-diethyl dithio-phosphoryl-methyl) 6-chlorobenzoxazoles.
60.	138365	08-09-1972	ALUMINUM COMPANY OF AMERICA, Alcoa Building, Pittsburgh, Pennsylvania, U.S.A.	Recovery of aluminium chloride from a gas containing gaseous aluminium chloride.
61.	138391	23-11-1972	STEETLEY (MFG) LIMITED, Gateford Mill Worksop, Nottinghamshire, England.	Process for making magnesia.
62.	138419	15-10-1973	PFIZER INC., 235, East 42nd Street, New York, State of New York, U.S.A.	Preparation of trisubstituted pyridine derivatives.
63.	138422	16-04-1973	Do. Do.	Prostaglandins of the 'one' series.
64.	138443	19-12-1973	C. S. I. R., Rafi Marg, New Delhi, India.	$\beta$ -N-N-propylaminoethyl-O-methoxyphenyl ether and its salts.
65.	138449	09-01-1973	UNILEVER LIMITED, Unilever House, Blackfriars, London, E.C. 4, England.	Black tea from green or unfermented tea.
66.	138486	27-06-1973	HOECHST AKTIENGESELLSCHAFT, 6230 Frankfurt/Main, FRG.	Shaped articles made of thermo-plastic moulding compositions based on poly(oxymethylene) and process for preparing the same.
67.	138490	19-09-1973	IMPERIAL CHEMICAL INDUSTRIES LIMITED, Imperial Chemical House, Millbank London, SW1, England.	Prostanoic acid derivatives.
68.	138524	19-02-1975	KNOLL AG, Ludwigshafen on Rhein, FRG.	A process for the preparation of a novel salt of N-phenyl-N-benzyl-4-amino-1-methylpiperidine.
69.	138549	22-01-1973	HINDUSTAN LEVER LIMITED, Hindustan Lever House, 165/166, Backbay Reclamation, Bombay-400020.	Detergent bars and process for manufacturing the same.
70.	138559	02-11-1972	HOECHST AG, Ludwigshafen on Rhein, FRG.	A process for the preparation of a novel monazo reactive dyestuffs.
71.	138564	20-10-1975	C. S. I. R., Rafi Marg, New Delhi.	The immersion deposition of nickel on mild steel for subsequent deposition with copper.
72.	138566	22-09-1972	PHILLIPS PETROLEUM COMPANY, Bartlesville, State of Oklahoma, U.S.A.	Production of terephthalic acid.
73.	138579	30-10-1973	C. S. I. R. Rafi Marg, New Delhi.	The process of electro deposition of bright zinc from acid baths.

1	2	3	4	5
74.	138618	15-01-1973	HINDUSTRAN LEVER LIMITED, Hindustan Lever House, 165/166, Backbay Reclamation, Bombay-400020.	Antiperspirant composition.
75.	138633	18-12-1972	HOECHST AG, 6230 Frankfurt/Main 80, FRG.	Preparation of new water-soluble reactive dyestuffs.
76.	138642	22-10-1973	LOUISIANA STATE UNIVERSITY, Bantan Rouge, Louisiana, U.S.A.	Production of comestible digestible protein from cellulosic materials.
77.	138643	22-11-1973	ANHEUSER BUSCH INC., 721, Pestalozzi Street, St. Louis, Missouri, U.S.A.	Producing unusable yeast products.
78.	138649	05-09-1973	THE DOW CHEMICAL COMPANY, Midland County of Midland, State of Michigan, U.S.A.	Method for purifying penta-chlorophenol.
79.	138662	25-01-1974	PEFIZER INC., 235 East 42nd Street, New York, State of New York, U.S.A.	Production of 6- $\alpha$ -deoxy-tetracyclines.
80.	138686	25-05-1973	SOLVAY & CIE, 33, rue du Prince Albert, B-1050, Brussels, Belgium.	Polymerisation of olefins.
81.	138689	02-06-1973	OSTERREICHISCH-AMERIKANISCHE MAGNESIT AG, Badenstein, Carinthia, Austria.	Production of sintered magnesia.
82.	138705	28-09-1973	SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B. V., Carel Van Bylandtlaan 30, The Hague, The Netherlands.	Producing gas by partial combustion and carburetting said gas.
83.	138739	30-05-1973	PFIZER INC., 235 East 42nd Street, New York, State of New York, U.S.A.	Preparing oxaprostaglandins.
84.	138740	25-03-1974	Do	Production of $\alpha$ -6-deoxytetracyclines.
85.	138742	06-11-1972	FIERRO ESPONJA SA, Avenida, Los Angeles al Oriente, Monterrey N. L. Republic of Mexico.	Reducing particulate ores.
86.	138752	08-08-1973	SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B. V., Carel Van Bylandtlaan 30, The Hague, The Netherlands.	Thermal cracking of hydrocarbon mixtures.
87.	138759	03-05-1974	CIBA-GEIGY OF INDIA LIMITED, Aarey Road, Goregaon, East, Bombay-63.	Manufacturing condensed mercaptō compounds.
88.	138789	06-07-1973	PFIZER INC., 235, East 42nd Street, New York, State of New York, U.S.A.	Preparing 15-substituted E-pentanor-prostaglandins.
89.	138791	31-12-1973	RHONE-PROGIL S. A., 25 Quai Paul-Doumer F-92408, Courbevoie, France.	Preparation of 1-2 di-chloroethane.
90.	138792	31-12-1973	Do.	Do.
91.	138817	23-07-1973	PFIZER INC., 235 East 42nd Street, New York, State of New York, U.S.A.	6-( $\alpha$ -(amidino-and imido)aminoalkanoyl-amino)-aracylamino penicillanic acids.
92.	138826	16-11-1973	HOECHST AG, 6230 Frankfurt/Main FRG.	Manufacture of polyolefin waxes.
93.	138835	11-06-1973	MONSANTO COMPANY, 800 North Lindbergh Boulevard, St. Louis, Missouri 63166, U.S.A.	Preparing 1, 1, 2, 3-Tetra-chloropropene from 1, 2, 3-Trichloropropene.
94.	138838	16-03-1973	AUSTRALIAN WIRE INDUSTRIES PROPRIETARY LIMITED, 140 William Street, Melbourne, Victoria, Australia.	Method of wiping hot dipped metal coated wire or strips.
95.	138853	30-04-1974	SADAYOSHI WATANABE, 1247-25, Miyamoto-cho, Chiro-ku, Sapporo-Shi, Hokkaido, Japan.	Paper-making pulps from grasses.
96.	138855	31-07-1973	SOCIETE NATIONALE DES POUDRES ET EXPLOSIFS, 12 Quai Henri IV, 75181, Paris cedex 04, France.	Production of particulate plasticized nitro-cellulose.
97.	138858	11-04-1975	THE DOW CHEMICAL COMPANY, Midland County of Midland, State of Michigan, U.S.A.	Preparation of substituted oxitane compounds.
98.	138862	12-12-1972	HOECHST AG, 6230, Frankfurt/Main 80, FRG.	Preparation of new water-soluble reactive azo dyestuffs.

1	2	3	4	5
99.	138875	23-04-1974	UNION CARBIDE INDIA LIMITED, 1, Middleton Street, Calcutta-700071, West Bengal, India.	Manufacture of cyclopentadiene
100.	138878	23-04-1974	Do.	Stabilising dicyclopentadiene (DCPD).
101.	138883	12-12-1972	HOECHST AG, 6230, Frankfurt/Main 80, FRG.	Novel water-soluble reactive azo dyestuffs.
102.	138884	12-12-1972	Do.	New water-soluble reactive azo dyestuffs.
103.	138885	12-12-1972	Do.	Novel water-soluble reactive azo dyestuffs.
104.	138895	11-07-1973	SOMITOMO CHEMICAL COMPANY LIMITED, No. 15, Kitahama, 5-Chome, Higashiku, Osaka, Japan.	Preparing substitute acetate compounds.
105.	138896	23-04-1974	UNION CARBIDE INDIA LIMITED, 1, Middleton Street, Calcutta-700071.	Conversion of cyclopentadiene (CPD) into dicyclopentadiene (DCPD).
106.	138917	07-12-1973	THE LUBRIZOL CORPORATION, 3057, Euclid Station, Cleveland, Ohio, U.S.A.	Preparing phosphonodithionic acid.
107.	138928	15-04-1974	HINDUSTAN LEVER LIMITED, Hindustan Lever House, 165/166, Backbay Reclamation, Bombay-400020.	Cosmetic skin moisturising composition.
108.	138952	03-05-1973	CIBE-GEIGY AG, Klybeckstrasse 141, Basle, Switzerland.	Manufacture of substituted chloroacetanilides.
109.	138966	31-05-1973	PFIZER INC., 235, East 42nd Street, New York, State of New York, U.S.A.	Preparing N-substituted prostaglandins carboxamides.

## COMMERCIAL WORKING OF PATENTED INVENTION

## LIST No. VII

The following Patents in the field of Chemical Industry are not being commercially worked in India as admitted by the Patentees in the statement filed by them under Section 146(2) of Patents Act, 1970 in respect of Calendar year 1979, generally on account of want of requests for licences to work the patented inventions.

Persons who are interested to work the said patents commercially may contact the Patentees for the grant of a licence for the pose.

S. No.	Patent No.	Date of Patent	Name and address of the party	Title
1	2	3	4	5
1.	136205	13-10-1972	DR. C. OTTO & COMP. GMBH, Christstrasse 9, Postfach 1849/1850, 463 Bochum, West Germany.	Vertical regenerator for horizontal coke ovens.
2.	138971	12-02-1973	HOECHST AKTIENGESELLSCHAFT, 45 Brunning Strasse, Frankfurt/Main, FRG.	Shaped articles made of thermoplastic moulding composition on the basis of polyoxymethylene.
3.	138985	02-04-1973	REGENTS OF THE UNIVERSITY OF CALIFORNIA, 2200 University Avenue, Berkeley, California, U.S.A.	Preparing siliceous composition from organic plant material.
4.	139015	28-02-1974	HOECHST AKTIENGESELLSCHAFT, 6230 Frankfurt/Main, FRG.	Preparation of oxamide.
5.	139040	11-04-1973	INTERNATIONAL NICKEL LIMITED, Thame House, Millbank, London, SW1P 4QF, England.	Nickel-base heat-resistant alloys and articles therefor.
6.	139078	26-11-1974	IMPERIAL CHEMICAL INDUSTRIES LIMITED, Imperial Chemical House, Millbank, London, SW1, England.	Morpholine derivative.
7.	139114	15-09-1973	AYERST, MCKENNA & HARRISON LIMITED, Saint Laurent, Province of Quebec, Canada.	Production of rapamycin.
8.	139118	27-10-1973	LONESTAR STEEL COMPANY, 2200 W. Mockingbird Lane, at Roper Dallas, Texas, U.S.A.	Removal of particulate matter and acidic gases from carrier gases.

1	2	3	4	5
9.	139121	14-02-1974	LABAZ, Avenue, Pierre ler de serbie 39, 75008, Paris, France.	Preparing novel indole derivatives.
10.	139155	11-04-1974	GULF OIL CORPORATION, Gulf Building 7th Avenue, Grant Street, Pittsburgh, Pennsylvania, U.S.A.	Refining carbonaceous fuels.
11.	139182	21-11-1973	SNAMPROGETTI S.P.A., 16 Corso Venezia, Milan, Italy.	Removal vinyl aromatic hydrocarbons.
12.	139193	24-02-1973	CHEMICAL SEPARATIONS CORPORATION, 795 Oak Ridge Turnpike, Oak Ridge, State of Tennessee, U.S.A.	Producing an ammonium nitrate containing fertilizer material.
13.	139205	18-07-1973	SNAMPROGETTI S.P.A., 16 Corso Venezia, Milan, Italy.	Hydrogenating diolefinic hydrocarbons to mono-olefinic hydrocarbons.
14.	139206	06-08-1973	SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B. V., Carel Van Bylandtlaan 30, The Hague, The Netherlands.	Production of hydrogen-rich gas from carbon monoxide and hydrogen containing gases.
15.	139208	19-03-1974	SNAMPROGETTI S.P.A., 16 Croso Venezia, Milan, Italy.	Purification of solution of urea.
16.	139212	19-09-1974	SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V., Carel Van Bylandtlaan 30, The Hague, The Netherlands.	Process for the production of synthesis gas.
17.	139216	28-02-1973	SNAMPROGETTI S.P.A., 16 Corso Venezia, Milan, Italy.	Producing aluminium chlorohydroxides.
18.	139231	25-05-1973	UNION CARBIDE INDIA LIMITED, 1, Middleton Street, Calcutta-700 071.	Manufacture of sorbic acid and its alkali metal salts.
19.	139235	19-10-1973	JOHN WYETH & BROTHER LIMITED, Huntercombe Lane South, Taplow, Maidenhead, Berkshire, England.	Novel pyridine derivatives.
20.	139237	13-03-1974	EMHART (U.K.) LIMITED, Crompton Road, Wheatley, Doneaster, Yorkshire, England.	Control system for cyclic processes.
21.	139256	18-07-1973	HINDUSTAN LEVER LIMITED, Hindustan Lever House, 165/166, Backbay Reclamation, Bombay-400 020.	Tooth pastes.
22.	139264	21-02-1973	AGEINDE CHIMICHE RIUNITE ANGELINI FRANCESCO A.C.R.A.F. S.P.A. Via Le Amelia 70, Rome, Italy.	Substituted 1-benzyl indazole-3-carboxylic acids.
23.	139265	23-11-1973	PFIZER INC., 235 East 42nd Street, New York, State of New York, U.S.A.	Preparation of $\epsilon$ -pentanor-prostaglandins.
24.	139269	27-03-1974	HOECHST AKTIENGESELLSCHAFT, 6230 Frankfurt/Main, FRG.	Single injection syringe.
25.	139273	03-03-1972	SOLVAY & CIE, 33 rue du Prince Albert, B-1050 Brussels, Belgium.	Stereospecific polymerization of alphaolefins.
26.	139278	17-09-1973	COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, Rafi Marg, New Delhi-110 001.	Production of new antiviral substance.
27.	139288	12-02-1974	METALLGESELLSCHAFT AG, 6 Frankfurt am Main, Reuterweg, 14 West Germany.	Mercury cell for the electrolysis of alkali metal chlorides.
28.	139301	26-03-1973	C.S.I.R., Rafi Marg, New Delhi-110 001.	Production of sponge iron.
29.	139306	25-09-1974	KAUTEX WERKE RENIOLD HAGEN GMBH, 5300 Bonn-Halzar 1, FRG.	Hollow articles of thermoplastic material by a blowing process.
30.	139317	18-06-1973	BRIDGESTONE TIRE COMPANY LIMITED, 1, 1-Chome, Kyobashi, Chuo-ku, Tokyo, Japan.	Composite of metallic material and vulcanised rubber, and process for production thereof.
31.	139321	19-07-1973	HOECHST AG, 6230 Frankfurt/Main, FRG.	Novel water soluble monoazo dyestuffs.
32.	139326	19-07-1973	CALEDONIAN MINING COMPANY LTD. Carlton House Carlton on-Trent Newark, Nottinghamshire, England.	Preparing and dispensing mixtures of concrete and fibres.

1	2	3	4	5
33.	139337	07-08-1973	PHILLIPS PETROLEUM COMPANY, Bartlesville, State of Oklahoma, U.S.A.	Continuous slurry process for the formation of aromatic Polycarboxylic acids.
34.	139383	22-06-1973	UNILEVER LIMITED, Unilever House, Blackfriars, London E C 4, England.	Composite tea product.
35.	139384	07-11-1973	PFIZER INC., 235, East 42nd Street, New York, State of New York, U.S.A.	Preparation of substituted $\omega$ -pentanor-prostaglandins.
36.	139408	07-01-1974	C. S. I. R., Rafi Marg, New Delhi-110 001.	New acidified sodium phosphate solution suitable for phosphating of metallic surfaces or rusted steel surfaces.
37.	139418	06-12-1973	IMPERIAL CHEMICAL INDUSTRIES LTD., Imperial Chemical House, Millbank, London, SW1, England.	Manufacture of alkylamine derivatives.
38.	139424	24-05-1974	USS ENGINEERS AND CONSULTANTS, INC. 600 Grant Street, Pittsburgh, State of Pennsylvania, U.S.A.	Uniform electroplating of sheet and strip.
39.	139427	09-03-1973	SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V., Carol Van Bylandtlaan 30, The Hague, The Netherlands.	Preparing improved catalyst.
40.	139432	19-11-1973	Do.	Ethylene oxide.
41.	139454	07-04-1974	C. S. I. R., Rafi Marg, New Delhi-110 001.	Improvement in or relating to paint stripper.
42.	139456	31-05-1973	CIBA-GEIGY AG, Klybeckstrasse 141, Basle, Switzerland.	Substituted chloroacetanilides.
43.	139459	09-07-1973	THE FERTILIZER CORPORATION OF INDIA LIMITED, P.O. Sindri, Distt. Dhanbad, Bihar.	Recovery of nickel in the form of nickel salts from the effluent in the manufacture of nickel based reformation catalysts.
44.	139464	15-03-1974	SOCIETE D'ETUDES DE PRODUITS CHIMIQUES, 16 rue kleber, 92130 Issy-les-Moulineaux, France.	Preparation of piperazine derivatives.
45.	139465	20-03-1974	SNAMPROGETTI S.P.A., 16 Corso Venezia, Milan, Italy.	Production of cellulose bodies and cellulose filaments incorporating enzymes.
46.	139468	29-10-1974	MICHIRO INOUE, 6-26-3, Kokuryo-cho, Chofu-shi, Tokyo, Japan and others.	Preparation of 1-phthalazone derivatives.
47.	139500	12-08-1974	CIBA-GEIGY OF INDIA LIMITED, Aarey Road, Goregaon East, Bombay-400 063.	Manufacture of nitroimidazoles.
48.	139508	19-10-1973	JOHN WYETH & BROTHER LIMITED, Huntercombe Lane, South, Taplow, Maidenhead, Berkshire, England.	Preparation of novel pyridine derivatives.
49.	139509	19-10-1973	Do.	Preparation of novel pyridine derivatives.
50.	139510	13-03-1974	HINDUSTAN LEVER LIMITED, Hindustan Lever House, 165/166, Backbay Reclamation, Bombay-400 020.	Liquid laundry detergent.
51.	139511	22-11-1974	MERCK PATENT GESELLSCHAFT MIT BESCHRANKTER HAFTUNG, Darmstadt, Frankfurter Strasse 250, FRG.	Preparation of "2-acyl-4-oxopyrazino isoquinolines".
52.	139529	28-12-1973	TOYO ENGINEERING CORPORATION 2-5, 3-Chome, Kasumigaseki, Chiyoda-ku, Tokyo, Japan.	Effecting catalytic gaseous reactions at elevated pressures.
53.	139531	02-08-1974	NIPPON SODA COMPANY LIMITED, 2-1, Otemachi 2-Chome, Chiyoda-ku, Tokyo, Japan.	Production of cyclohexane derivatives.
54.	139552	29-10-1974	MICHIRO INOUE, 6-26-3, Kokuryo-cho, Chofu-shi, Tokyo, Japan and others.	Preparation of 1-phthalazone derivatives.
55.	139561	28-08-1974	CHINON GYOGYSZER ES VEGYESZETI TERMEKEKGYARART, 1-5 to U, Budapest IV, Hungary.	Preparation of 6, 7-dialkoxyquinolinc derivatives.
56.	139571	21-09-1973	BETHLEHEM STEEL CORPORATION, Bethlehem, Pennsylvania, U.S.A.	Corrosion resistant aluminium-zinc coating.

1	2	3	4	5
57.	139584	25-06-1975	HOECHST AKTIENGESELLSCHAFT, 6230 Frankfurt/Main 80, FRG.	Manufacture of insecticidal compounds.
58.	139604	16-08-1974	VEREINIGTE OSTERREICHISCHE EISEN UND STANHLWERKE-ALPINE MONTAN AKTIENGESELLSCHAFT, Friedrichstrasse 4, 1011 Wien, Austria.	Extracting iron from iron ores.
59.	139616	06-07-1973	SIMON-CARVES LIMITED, Cheadle Heath, Stockport, Cheshire, England.	Manufacture of sulfuric acid.
60.	139619	19-01-1974	THE GOODYEAR TIRE & RUBBER COMPANY, 1144 East Market Street, Akron, Ohio, U.S.A.	Coagulating synthetic latices.
61.	139623	26-06-1974	RCA CORPORATION, 30 Rockefeller Plaza, New York, 10020, New York, U.S.A.	Etching silicon oxide to produce a tapered edge thereon.
62.	139628	30-08-1974	SHYAM SUNDER GHOSH, BELPAHAR REFRactories LIMITED, P. O. Belpar, C.S.E. Railway, Orissa, India.	Manufacture of special silica bricks.
63.	139642	29-06-1973	UNION CARBIDE CORPORATION, 270 Park Avenue, New York, State of New York, U.S.A.	Producing an effluent having a reduced BOD Content.
64.	139647	18-12-1973	HOECHST AG, 6230 Frankfurt/Main 80, FRG.	Preparing copolymers of thioxane.
65.	139656	05-09-1973	HINDUSTAN LEVER LIMITED, Hindustan Lever House, 165/166 Backbay Reclamation, Bombay 400 020.	Detergent compositions.
66.	139658	18-01-1973	IMPERIAL CHEMICAL INDUSTRIES LIMITED, Imperial Chemical House, Millbank London SW1, England.	Making a catalyst precursor for the synthesis of methanol.
67.	139701	28-08-1973	HOECHST AG, 6230 Frankfurt/Main 80, FRG.	Preparation of 4-chloronaphthalic acid anhydride.
68.	139715	31-05-1974	AMERICAN CYANAMID COMPANY, Wayne New Jersey, U.S.A.	Manufacture of N-alkylated aromatic amines.
69.	139720	18-01-1973	HINDUSTAN LEVER LIMITED, Hindustan Lever House, 165/166, Backbay Reclamation, Bombay-400 020.	Preparing a sulphided metallic support catalyst.
70.	139721	09-01-1973	HOECHST AG, 6230 Frankfurt/Main 80, FRG.	Preparing water soluble reactive dyestuffs.
71.	139722	28-02-1973	SNAMPROGETTI S.P.A., 16 Corso venezia, Milan, Italy.	Producing aluminium cholorohydroxides.
72.	139723	13-03-1973	Do. Do.	Producing of propylene oxide.
73.	139729	06-09-1973	IMPERIAL CHEMICAL INDUSTRIES LIMITED, Millbank, London SW1, England.	Explosive fuse-cord.
74.	139732	08-02-1974	GIST-BROCARDES NV, Waterweg 1, Delft, Holland.	Preparation of acetidine derivatives.
75.	139737	06-02-1973	ELKEM-SPIGERVERKET A/S, Middlelthungs gate 27, P.O. Box 5430, OS10 3, Norway.	Producing a silicon-rich material and an electric furnace for carrying out said method.
76.	139740	21-02-1974	HOLLANDSE SIGNALAPPARATEN B. V., Zuiderlijke Havenweg 40, Hengelo(O), The Netherlands.	Manufacture of twistless yarn with low twist.
77.	139747	08-09-1972	ALUMINIUM COMPANY OF AMERICA, ALCOA Building, Pittsburgh, Pennsylvania, U.S.A.	Effecting the desublimation of gaseous aluminium chloride to solid form.
78.	139782	08-04-1974	HINDUSTAN LEVER LIMITED, Hindustan Lever House, 165/166 Backbay Reclamation, Bombay 400 020.	Dentifrice.
79.	139796	26-02-1973	CLIBA-GEIGY AG, Klybeckstrasse 141 Basla, Switzerland	New Vat-dyestuffs.
80.	139805	04-03-1974	CUTOCKUMPU OY, Outokumpu, Finland.	Intrauterine contraceptive device.
81.	139810	28-01-1976	UNION CARBIDE INDIA LIMITED, 1 Middleton Street, Calcutta-700071.	Manufacture of para-tertiary butyl phenol.

1	2	3	4	5
82.	139821	02-11-1973	HINDUSTAN LEVER LIMITED, Hindustan Lever House, 165/166, Backbay Reclamation, Bombay-400 020.	Detergent bars.
83.	139829	16-03-1974	UNION CARBIDE INDIA LIMITED, 1, Middleton Street, Calcutta-700 071.	Process of removing sulphuric acid colour producing impurities present in acetadol route 2-ethyl Hexanol and refining the product so obtained.
84.	139833	26-09-1974	C. S. I. R., Rafi Marg, New Delhi.	Calcium tungstate blue phosphor of different shades.
85.	139834	16-11-1973	F. L. SMIDITH & COMPANY A/s. 77 Vigerslev Alle, Copenhagen Valby, Denmark.	Calcination of pulverous material.
86.	139841	13-04-1973	UNION CARBIDE CORPORATION, 270 Park Avenue, New York, State of New York, U.S.A.	Extracting metal values from spent hydro-desulfurization catalysts.
87.	139844	26-06-1973	FIERRO ESPONJA SA, Arenida Los Angeles Al riente, Monterrey N. L. Republic of Mexico.	Batchwise gaseous reduction of iron oxide ore to spngy iron.
88.	139896	22-06-1973	CIBA-GEIGY AG, Klybeckstrasse 141, Basle Switzerland.	Dyeing and printing of textile material and leather.
89.	139905	06-11-1973	PFIZER INC., 235 East 42nd Street, New York, State of New York, U.S.A.	Preparation of p-biphenyl esters of 15-substituted $\alpha$ -pentanoyl-prostaglandins.
90.	139932	18-01-1974	Do.	Preparing [6- $\alpha$ -(amidino-and imidoyleamino-alkanoyl-amino) aracylamino] penillanic acids.
91.	139945	24-08-1973	CRAWFORD BROWN MURTON, 1906 Brush-diff Road, Pittsburgh, State Pennsylvania 15221, U.S.A.	A method of applying a refractory lining to a metallurgical vessel and the metallurgical vessel as produced and composition used in the same.
92.	139949	17-06-1974	C. S.I.R., Raffi Marg, New Delhi.	Unsymmetrical dimethyl hydrazine (UDMH) by electrolytic reduction of N-Nitroso-dimethylamine (NDMA).
93.	139961	23-10-1972	Do.	Method for the extraction of metals from their salt solution by adsorption.
94.	139980	18-09-1974	UNITED AIRCRAFT CORPORATION, 400 Main Street, East Hartford, Connecticut, U.S.A.	Preparing fuel cell electrode supported catalytic powder.
95.	139996	01-11-1974	MICHIRO INOUE, 6-26-3, Kokuryo-cho, Chofu-shi, Tokyo, Japan, and others.	Process for the manufacture of 1-phthalazone derivative.
96.	140003	21-11-1973	SNAMPROGETTIS P.A. 16 Corso Venezia, Milan, Italy.	Process for recovering aromatic hydrocarbons.
97.	140021	08-05-1973	GREAT LEAKES CARBON CORPORATION, 299 Park Avenue, New York State of New York U.S.A.	Collecting emissions discharged into atmospheric from high temperature chemical reactors.
98.	140029	22-12-1973	HOECHST AG, 6230 Frankfurt/Main 80, FRG.	Process for preparing copper phthalocyanine pigments of the $\alpha$ -modification.
99.	140031	06-02-1974	IMITSU TOATSU CHEMICALS INC. No. 2-5, Kasumigasekiz-chome, chiyod-ku, Tokyo, Japan.	Method of recovering unreacted ammonium Carbamate in ureas synthesis.
100.	140070	05-09-1973	HALCON INTERNATIONAL Inc, 2 Park Avenue, New York, New York, 10016, U.S.A.	Process for preparing a catalyst composition.
101.	140093	02-05-1973	THE BABCOCK & WILCOX COMPANY, 161 East 42nd Street, New York, New York, 10017, U.S.A.	A method for converting a metal oxide powder into a fine grain ceramic material.
102.	140099	13-11-1973	HOECHST AG, 6230, Frankfurt/Main 80, F.R.G.	Manufacture of naphthalene monosulfonic acids.
103.	140136	13-08-1974	C.S.I.R., Rafi Marg, New Delhi.	Preparation of trypsin from buffalo and goat pancreas.
104.	140137	03-09-1974	Do.	Synthesis of ethers derived from substituted-3'-nitro-4'-hydroxybenzanilides.

1	2	3	4	5
105.	140155	26-04-1974	UOP INC., Ten UOP Plaza—Algonquin & Mt. Prospect Roads, Des Plaines, Illinois, U.S.A.	Multiple stage production of low sulfur fuel oil.
106.	140165	22-11-1974	JOHN WYETH & BROTHER LIMITED, Huntercombe Lane, South, Taplow, Maidenhead, Berkshire, England.	Process for preparing pyridine derivatives.
107.	140167	08-10-1974	CESKOSLOVENSKA AKADEMIE VED No. 3, Narodni Prague 1, Czechoslovakia.	Process for the manufacture of novel analogs of deaminovaso-pressin with a modified disulfide bridge.
108.	140172	31-12-1974	C.S.I.R., Rafi Marg, New Delhi.	Electroforming of nickel foils.
109.	140178	17-10-1973	POLYSAR LIMITED, Sarnia, Ontario, Canada.	Vulcanization of chlorobutyl and bromobutyl.
110.	140179	13-11-1973	HOECHST AG, 6230 Frankfurt/Main 80, FRG.	Continuous process for preparing copper phthalocyanine.
111.	140188	09-11-1973	VIKRAM SARABHAI SPACE CENTRE, ISRO Post, Trivandrum 22, Kerala, India.	Process for preparing novel condensation products of trihydroxybenzenes and acetone.
112.	140212	27-12-1972	UNION CARBIDE CORPORATION, 270 Park Avenue, New York, State of New York, 10017, U.S.A.	Refining molten aluminium.
113.	140223	21-12-1973	SNAMPROGETTI S.P.A., 16 Corso Venezia, Milan, Italy.	Production of dimethyl ether.
114.	140236	19-03-1975	PFIZER INC., 235 East 42nd Street, New York, State of New York, U.S.A.	Process for saccharide polycondensation.
115.	140240	11-01-1974	SNAMPROGETTI S.P.A., 16 Corso Venezia, Milan, Italy.	Recovering isoprene from a mixture of isoprene and other hydrocarbons.
116.	140244	10-12-1973	ELKEM-SPIGERVERKET A/S., Middelthun gate 27, Elkemhuset, Oslo 3, Norway.	Process for producing an AlF <sub>3</sub> containing additive.
117.	140246	12-03-1974	SHELL INTERNATIONALE, RESEARCH MAATSCHAPPIJ B. V., Carel Van Bylandtlaan 30, The Hague, The Netherlands.	Preparation of hydrogen-rich gas.
118.	140263	22-03-1974	INSTITUT FRANCAIS DU PETROLE, DES-CARBURANTS ET, LUBRIFIANTS, 194, Avenue de Bois Breau 92502, Reuil-Malmaison, France.	A process for manufacturing 2, 4-quinazoline dionepolyamide-ester resins.
119.	140266	01-11-1974	FIERRO ESPONJA SA, Avenida Los Angeles 1 Oriente, Mouterrey N. L. Republic of Mexico.	Method for gaseous reduction of metal ores.

REGISTRATION OF ASSIGNMENTS, LICENCES, ETC.  
(PATENTS).

Assignments, licences or other transactions affecting the interests of the original patentees have been registered in the following cases. The number of each case is followed by the names of the parties claiming interests:—

125290.—Henri Arthur Charles Daussan & Others.

133601 138872.—Y. S. Securities Limited.

140164.—M/s. Fabcon Incorporated.

## PATENTS DEEMED TO BE ENDORSED WITH THE WORDS "LICENCES OF RIGHT"

The following patents are deemed to have been endorsed with the words "Licences of right" under Section 87 of the Patents Act, 1970. The dates shown in the crescent brackets are the dates of the patents.

No.	Title of the invention
141181 (11-11-74)	Process for the preparation of polyazole dyestuff.
141238 (04-02-75)	Process and apparatus for calcining pellet shaped calcium hydroxide.
141245 (12-08-76)	Improvements in or relating to the preparation of 1, 3, 3-trimethyl-2-methylene indolene.

No	Title of the invention
141291 (23-09-74)	Extracting copper from sulfide concentrates.
141310 (27-09-74)	Process for the production of a methane containing gas.

## RENEWAL FEES PAID

101628 102495 102677 103449 103468 103531 103621 103766
105811 107860 108005 108374 108826 108874 112035 112440
112473 113193 113453 113777 113928 114021 114110 114367
114770 117404 118901 119436 119444 119482 119830 120085
120698 121709 121710 123163 123939 123940 123941 123942
123943 124214 124342 124811 124848 124976 125197 125299
125347 125373 125448 125601 126195 126262 127104 127439
128684 129108 129682 129796 129914 129951 130022 130026
130060 130315 130461 130787 131203 131435 131436 133341
133538 133701 133941 133960 134009 134030 134086 134256
134291 134351 134383 134508 134622 134825 134979 135003
135065 135197 135696 135698 136067 136332 136389 136571
136765 136789 136810 136811 136849 136886 137023 137074
137278 137351 137573 137575 137580 137581 137584 137794
137806 137810 137813 137839 137909 137956 137966 138015
138064 138202 138293 138508 138528 138579 138631 138797
138820 139037 139397 139478 139490 139672 139740 139802
139839 139873 139886 140090 140118 140186 140187 140197

140345 140397 140407 140415 140432 140483 140524 140537	146020 146119 146201 146216 146260 146366 146450 146458
140581 140624 140640 140648 140912 140963 140971 141134	146464 146500 146569 146617 146649 146687 146700 146717
141150 141294 141405 141535 141656 141660 141864 141974	146718 146740 146752 146755 146773 146780 146830 146837
142096 142130 142314 142445 142483 142499 142576 142611	146867 146887 146903 146925 146934 146945 146973 146983
142628 142696 143062 143152 143207 143210 143246 143265	146995 147005 147009 147016 147020 147031 147032 147035
143290 143297 143304 143355 143362 143411 143499 143607	147038 147071 147090 147092 147094 147121 147122 147137
143612 143615 143631 143659 143768 143872 143888 143966	147144 147153 147188 147200 147261 147623.
144050 144059 144157 144159 144233 144214 144316 144355	
144356 144654 144729 144849 144875 144937 144962 145019	
145136 145381 145465 145467 145480 145487 145561 145565	
145583 145599 145727 145850 145886 145944 145969 146017	

S. VEDARAMAN,  
CONTROLLER-GENERAL OF PATENTS, DESIGNS  
AND TRADE MARKS.